```
aggattcaat ggtgggtga atgggggaaag agatttcaac tcacgttgac aaaattggcgg      480
cttcgtgctc caatgggcag aattgcctga gaggatacat tcagcagatg agtgaccaat      540
gagtcgctgc ctaaaggcaa aaaatggaaa atcattgtcc tgtacatacc tcatcaactt      600
cctgacagca tgcatatgtg gcaaaccaga aggattacaa tgcaggagaa gtctaaggcc      660
tagcctaaac tttacctatt gtttccagcg cttccatttc tttttcttaa tctttcatta      720
ttgaaagaga tatttcgtcg acggcgccgc gagattccaa aatttatgaa tcgtaggttc      780
ctggaaaaac ccccgcaggt ttcactttaa ctgggcatgg ggggcaccat atta           834
```


        <210> 735
        <211> 724
        <212> DNA
        <213> Homo sapiens

        <400> 735
```
ggcacgagaa acagtacatc ctgcctatga attctactga ccttaatcta taattttttg       60
ttactactag gtttgaactg aggtatgatt gaaagagatg ggagtcagtg agctactgct      120
gcttttgaaa atgatagctt ctgtaatatt tctttattca tttatttcaa tgtttaaaac      180
ccaactactt tgtagttcgt caacttcaca tggaattctt gagagcagga tcaaatgtca      240
tgcagacttt tacctttttct gccagtgagg acaatatgga aagcaaggta aacggcaatg      300
gctgggtgtg ggggagggag tcatctatta aaaaataacc tcttcatggg aagctatgga      360
attgattatg tgttactata ctttattaca aagtccatat aaatatgtat taattttcac      420
gtgaagatat atactaaata ggtcgggcac agtggcttac acctgtaatc ccagcactct      480
gagaggccga ggtggacaga ccacttgagc ccaggagttc cagatcagct tggacaacat      540
ggtgaaaccc tgtctctact gaaaatgcaa aaattagctg ggtgtgtggc aggcgccagt      600
aacccagcta cgcaggaggt tgaggcatga gaatggcttc aacctgggag atagcattga      660
gccgagatac cccactgcct tccacctggt gacagagcaa gaccccatgt caccaaaaaa      720
aaaa                                                                   724
```


        <210> 736
        <211> 355
        <212> DNA
        <213> Homo sapiens

        <400> 736
```
ggcacgagct cacacaagat tacaatgaac caactcagct tcctgctgtt tctcatagcg       60
accaccagag gatggagtac agatgaggct aatacttact tcttggaatg tacctgttct      120
tggtctccat ctctgcccaa aagctgcccg gaaatcaaag accaatgtcc tagtgcattt      180
gatggcctgt attttattcg tactgagaac gctgttatcc accataccct ctgtgtcatg      240
acctctgcgg gctgcttctg gatactaaag gtcaccgtgc ataactatga tctgacaacg      300
gacaccccgt agaattatac ccagactctt ttaagggaaa aactgctcat tattg           355
```


        <210> 737
        <211> 228
        <212> DNA
        <213> Homo sapiens

        <400> 737
```
accacctctc ctgccatatt cctgggtgct tcactgaatg caggatacat ccatctggat       60
gacacactta tggtcatttc agccgcagtc ttatccagca tcctatgtgt attcctttct      120
aaactggtac tcatgaatga tgaatgtctg aggctcacat tctggctgca ctgcaatgct      180
```


                                       465
```

```
aaacactaca gatatagcat gctgggcttt cctaaactga catctgtt            228
```

```
        <210> 738
        <211> 708
        <212> DNA
        <213> Homo sapiens


        <400> 738
ggcacgagag aagacttgag ggtcctattg atgaactttg aaatattgat tcagagaagt    60
ctgcttttct attttgtttt agctttaaat ttccctgtgg caagtctaga tttttttttca   120
gttaaaatta tttctgctgt atttgtagaa cagaagtttt gggattttgt aaaataatga   180
ccagagacta agaattccca tgccaccccg tatcactgtg gaagatggag aagtgaggaa   240
ctgtacctgc gggtgagccc tggtgccatg ttgagtgtgg gaatcaggag agctgcagtg   300
gcttatataa acacctgacg aagtagtcta attggcttaa tcatttattt tatttattga   360
aatatatatc tgggctgggc acggtggctc acatctgtaa tcccagcact ttgggagggc   420
aaggcaggtg gatcacttga ggttaggagt tcaagaccag cctggccaat atggtgaaac   480
tgcgtctcta ctaaaaatac aaaaattggc tgggcatgat ggcgtgcacc tgtaacccca   540
gctactcggg aggctgaggc aaaaaaattg ctttgaacct tggaaggcgg agggtttcaa   600
tgaaccccga gactgcaccc actggcctcc agcctggggc aaaaaagccg ggacttcctt   660
cttcggacaa acaagcacgc gggcgggcac actccttccc agcccgcc               708


        <210> 739
        <211> 1798
        <212> DNA
        <213> Homo sapiens


        <400> 739
caagaagtgt ccacagcagt aatggataaa gactagtttt aaatcctcaa agccctaaga    60
ggggcccctt ggttgcccctt tgtgaatgcc agcccctta agagagtggt gtttgattaa   120
caaaaaaact gtggccccaa gtggaaccct tgaccttttc ctcagataat ctgtgtatgt   180
acacagctaa cacagctctt tagattccct gttaagtgac tcattcacat tcctttcttg   240
gatataaagt cattgctgtc tttttatttt tgaaatagta caagacaaag atttttaact   300
taacatgaaa aattcactct tttattttgg aaaaaaagtt aacttttcat actaacaaac   360
agaacaagat ttaaggtaaa tttcttaaac attatccaga aaaataacaa gatttatagt   420
atctacttct ggtactaata tacacaaaag gccaaaacca tgcctattct gcaggtgtag   480
cttcggtgct ctcctgttca ggggcaggct cactgcccgc ttcttttcct tctttgcttc   540
ttttagattt tttgtgtttg tgtctcctgt gactatctcc ttcttcactt tcatggcgac   600
gtctactatt acttcgagaa gacttatgtc tggtttcctc tttctccctg tgtcgtcttt   660
ctctatgtcg ttcttctttt tctcgacttg ctctgtgacg ctcataacct ctttctgcat   720
attccctgta tctgtatcgt tcttcatcgc tgttgaaaac acttggtgta ggactgtgat   780
cacgctccct ctctctctct ctggtgcgtt ctctttctct gtcccgatca cggtctcgct   840
ctctgtctct gtctctctct ctatctcggt ctttctctct tctggcataa tagtcccact   900
gcttgctggt gtccacaaga ctaggccacg aaggagcaga accaggaaga tggggaaagg   960
caacattgcc atatggaaat gcacgtgcag aacgactatc ataaccagag gaatgtccac   1020
tttctattgt tggtataaga gatggaggtg gagcgcctgg tggaggagga aaacccggtg   1080
gtggaatcag aggtggagca gtgctgacag tcggaggagg tggaagaaat ggaggaggtg   1140
gaaggtgagt gggaggagct cctggaggga aaaacggagg tggtttgcta aaattgttgt   1200
ctacttcagt agcagatctt tcagaaagga cctgtatgtt gctgttctca tttgcccgtc   1260
gcctgccttt tactcggctg atagttatag tctgaccgat aacatcaatt gccccaggta   1320
atctcctgct cggtggaagc ccagtcttga acaaagaagg aggagaagta acctcagctt   1380
ttgtagatgg aagggcagtt tctttctctg agtttccagt tcttccctgc tgtaccttaa   1440
aaagattgaa tctgccatct tggatctctg cacctggtgt aacttccata gtacagtctt   1500
cggccgtaat tttatttgta gtagaggtta ctggtataac ttcaagtccc attcgtatcc   1560
```

```
tcttttgttt ttcacagtaa gctttccagg tatcttcatt aaacccataa ttaaaataat    1620
cagaaagatc agcaccaggt ttacgccatg gtttatcttc aaaagaatcc aaatctacct    1680
ctaagagtgg aactccatta atgcttccag gtgcatcaag gtctactcct ttgacttttg    1740
tccctgtagt tccataaact cttccccctg tcttgacgaa atcgtcgacc cgggaatt      1798
```

```
        <210> 740
        <211> 393
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 740
gcatcgatga aacagttgta gctgacatgc tcgtaaaggt tgtatatgtt atgggggcca      60
ttctcaaaat ctttctccgt gaagggaacg tcatcaatca gcgcagcgga atggacattg     120
aaaaatattc cgagcattat ctggcacagg gcgtgaggtg gtgacattga gacaagtggt     180
cgaggcaagg gtgggaatag tgaccaagcc gtctctccca ggaacccaga ttatcgtcct     240
ctctggaggc gtcatcatca cggggcagtg cgcaagaggg gaggggagaac cggcacttct     300
tcatatcagt tcttcttgaa atgccggtgg gtggaacact acatgatcac tctccaggcg     360
ttgagaacga cgcccgctcg cgatctagaa cta                                 393
```

```
        <210> 741
        <211> 360
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 741
ctacccccttg cgtggctgga actgacgttt ccctggaggt gtccagaaag ctgatgtaac     60
acagagccta taaaagctgt cggtccttaa ggctgcccag cgccttgcca aaatggagct    120
tgtaagaagg ctcatgccat tgaccctctt aattctctcc tgtttggcgg agctgacaat    180
ggcggaggct gaaggcaatg caagctgcac agtcagtcta gggggtgcca atatggcaga    240
gacccacaaa gccatgatcc tgcaactcaa tcccagtgag aactgcacct ggacaataga    300
aagaccagaa aacaaaagca tcagaattat cttttgctat gtccaacttg gttccgaaag    360
```

```
        <210> 742
        <211> 908
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 742
gggaggcggg cagcggagcc aagctgaccc ggcgagcgga gccggggctg gagagcggcg      60
accactgcgg atctcggaag gaagaaatga tgtaaatcac tcatccaaac cttaaggtca    120
aaggtgagaa ggaaggtcag gaagaacatg gcctggccaa atgtttttca aagagggtct    180
ctgctgtccc agttcagcca tcatcatgtt gtagtgttcc tgctcacttt cttcagttat    240
tcgttgctcc atgcttcacg aaaaacattt agcaatgtca aagtcagtat ctctgagcag    300
tggaccccaa gtgctttaa cacgtcagtt gagctgcctc tggagatctg gagcagcaac    360
catttgttcc ccagtgcaga gaaagcgact cttttcctcg gcacactgga taccattttc    420
ctcttctcct atgctgtggg cctattcatc agtggcatcg ttggggatcg gttgaatttg    480
cgatgggttc tgtcttttgg catgtgctct tctgcattag tggtgtttgt ctttggtgcg    540
ctcacagaat ggctgcgttt ttacaacaaa tggctgtact gctgcctgtg gattgtgaac    600
ggcctgctgc agtccactgg ttggccctgt gtggttgctg ttatgggcaa ctggtttggg    660
aaagccggac gaggagttgt ttttggtctc tggagtgcct gtgcttcggt gggcaacatt    720
```

```
ttgggagcgt gcctagcttc ttctgttctt cagtatggtt atgagtatgc ctttctggtg    780
acggcgtctg tgcagtttgc tggtgggatc gttatcttct ttggactcct ggtgtcacca    840
gaagaaattg gtctctcggg tattgaggca gaagaaaact ttgaagaaga ctcacacagg    900
ccattaat                                                             908
```

```
        <210> 743
        <211> 434
        <212> DNA
        <213> Homo sapiens


        <400> 743
ctgccatgga tacctggctc gtatgctggg caatttttag tctcttgaaa gcaggactca     60
cagaacctga agtcacccag actcccagcc atcaggtcac acagatggga caggaagtga    120
tcttgcgctg tgtccccatc tctaatcact tatacttcta ttggtacaga caaatcttgg    180
ggcagaaagt cgagtttctg gtttcctttt ataataatga aatctcagag aagtctgaaa    240
tattcgatga tcaattctca gttgaaaggc ctgatggatc aaatttcact ctgaagatcc    300
ggtccacaaa gctggaggac tcagccatgt acttctgtgc cagcagtgaa aggggggtctg   360
gggccaacgt cctgactttc ggggccggca gcaggctgac cgtgctggag gacctgaaaa    420
acgtgttccc accc                                                      434
```

```
        <210> 744
        <211> 786
        <212> DNA
        <213> Homo sapiens                                          1


        <400> 744
gcctggtgta atgcgaggtt gccggaaaca gcaaagatag atttcagagc acagcagcag     60
gggtccctgg tcagccccgc tccctagagc aggagatctt gagtgggaga acattcttgt    120
tgtagccaca gctgaggccc tggaccagct ctctccacac cgcatgctcc gagttgggac    180
tctaaggagt ctaggaattt tcattcaaac ttggccttac aggtcactca tcagaaaaat    240
acttttttca aggtcaacca atagaacata ctttattcaa cagtttgtta gtttgctttt    300
taaatattta gccacatggt atgtaggctt ccatgtacac tcttgccctg gcccctgaaa    360
cataagcagg gggctcttct gtacatttgc ccagcttccc tgccagcctt taacccccagg    420
aacctctcag tctacctcct cttttctgcc tctgaatccc tacctttaaa gtcagaacag    480
gccaggcccg gtggctcacg cctgtaatcc cagcactttg ggaggctgag gtgggtggat    540
cacttgacat cagtagttca agaccagcct ggccaacatg gtgaaacccc atccttacta    600
aaaatacaaa aattagccag gtgtggtggc gggcacctgt aatcccagct actcaggagg    660
ctgaggcagg agaatcactt gaacccagga ggcagagttt gcagtcagcc aagatcacgc    720
cactgtactc cagcctggat gacacagcga gactccgtct caaaataaat acaaaaaaaa    780
aaaagg                                                               786
```

```
        <210> 745
        <211> 379
        <212> DNA
        <213> Homo sapiens


        <400> 745
gcaagatggt gttgcagacc cacgccttca tttctctgct gctctggatc tctggtgcct     60
gcggggacat cgtgatgacc cactctccag actccctggc tgtgtctctg ggcgagacgg    120
ccaccatcga ctgcaggtcc agccagagtg tcctctacca cgccaacaat aaaaactact    180
```

468

```
taacttggta ccagcagaga ccacgacagt ctcctaaagt gctcattttc tgggcatcta    240
cccgggaaac cggtgtgcct gaccgattca ctggcagcgg gtctgggaca gattattcgc    300
tcaccataag cagcctgcag gctgaagatg tggccactta ttactgtcaa caatattatg    360
attctccgat caccttccg                                                 379
```

```
   <210> 746
   <211> 440
   <212> DNA
   <213> Homo sapiens
```

```
   <400> 746
cccgtagacg tcttacctgc ctacgccaag cttggcacga ggggtctctg cagtgagtgg     60
ggagcctaca taaaagagag taaagagggg caaaaaccca gatcagaatg caggcgacgt    120
ccaaccttct caacctcctg ctgctgtctt tgtttgccgg attaaatcct tccaagactc    180
acattaatcc taaagaaggg tggcaggtgt acagctcagc tcaggatcct gatgggcggg    240
gcatttgcac agttgttgct ccagaacaaa acctgtgttc ccgggatgcc aaaagcaggc    300
aacttcgcca actactggaa aaggttcaga acatgtccca gtctattgaa gtcttaaact    360
tgagaactca gagagatttc caatatgttt taaaaatgga aacccaaatg aaagggctga    420
aggcaaaatt tcggcagatt                                                440
```

```
   <210> 747
   <211> 942
   <212> DNA
   <213> Homo sapiens
```

```
   <400> 747
tttttttttt ttgttctaag ccatagaaga atatttattg acatggaaaa tgttaacaat     60
atacttctat atgaaatatg taggctacaa aacagtatat acagtttaat accatttta    120
tggaaagaaa aataaccata tatacaaaat catgcataag aaaaaaataa tataaggatg    180
tacataccaa atattaataa taatggctat ctctggatag tggaatcaga gggattatgt    240
aattttcctg ataaattttc ctgtcctcca aacagcatcc gcttcatact attatttctt    300
ggttgtaatt agtttgatat aattctcttc agaaaggctc tgtttcacta tatatacctc    360
aaagcatact tttgatgcag cttctgcaat tcccatctaa aaagtagata acacttgctc    420
ttatattctg gcatatgaag actatttgta attaacacac tataaaatat gtcaaagcag    480
gccaggcatg gtggctcaca cctgtaattc caaaaccttg gcaggaagat cgattgaggc    540
caggagctca agacgagcct gggcaacata gaaagaccct atctttacaa aaaaaacttt    600
aaaaattagc caggtgtaat agcacatgcc tgtctgtaat cccagctact tggcaggctg    660
gaaggtcaag gctgcagtga gccatgatca tgccactgca ctccagccta ggtgacagag    720
caagaactca tctctaaaaa aaaattttta aataaagcaa aatatgccac agcatagatc    780
tgattgtaga aaattattat atggagaact gaaaaatctc ctaatcaaga caaaaatttt    840
aaatagagga aaaaaatact atctatcatt agttcaagtt tccattaaga gtagagtgtg    900
aagtagctcc aagttcagag ctggagaatt ttgcatctct cc                       942
```

```
   <210> 748
   <211> 1050
   <212> DNA
   <213> Homo sapiens
```

```
   <220>
   <221> misc_feature
   <222> (1)...(1050)
```

```
<223> n = a,t,c or g


<400> 748
tgcaagaatt ggcaggcaaa tggggatgtg tgtgaacggt gtgactatga acatgggtga     60
tcgattacgg acatgcaaga tggaaaattg gttgtggcat ccagataagg gaaaacaagt    120
aggacaccag attgtataca ctgtgatcaa aaccatgtga aaaacacatg catgaagagg    180
actgggaaga aatacacaag aagtggttgc attagggtga gaaggagtat tcatgttttt    240
ctcatccgtc tttttcaaac cttttgtaat gggtggtttt attaatttta taatggaaaa    300
tgttaattta aaagcaagtt atttacagtt tagtaagctc atggcaggga aaggctgggc    360
tctgtttatt gctcttactt tttcccaacg cctactccca tgcctggcaa ttatagagat    420
aataaatgtg ggtgtggaat gagtgcccac tgggaaacct ctcagaggac tttgacccag    480
gaacatattt gcacagggtt tccctcagct ggagaaggtt tctctgggag agcaccagcc    540
aggtgtgtgt catgggatat atttacaggg tggtgagctc tcctggtcca acctaaaagg    600
tcccagcaag gtgtaggggc ccttctggcc atttgacatc accagggcag ttagtgctga    660
tacaaaccac agagaatgaa caaactccaa ctcaaacggg aatggatttt atgtcattct    720
gggactttca aacttgataa tagaccaagc atggtggctc acacatgtaa tcctagcact    780
ttgggaagcc aaggtgggag gatcgcttgc ggccaggaga ttgagaccag cctgggaaag    840
gtagcaagac ccagtctcta caaaaaaatt ttttgttctg ttttgttttt gagacagagt    900
ctcaactctg tcgtctaggc tggagtgcag tggtttgatc ttgggtnatt agtttctttt    960
tttgtgggtg ttgtgtttaa gttttttgttt tgggttaaat taatctggtc ttgggaatcc   1020
ttcttttttat cgttggtgga gatttaaccg                                    1050



<210> 749
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(390)
<223> n = a,t,c or g


<400> 749
tcgcggaggt gcctcaacca tggcatggat ccctctcttt ctcggcgtcc ttgcttactg     60
cacagaatcc gtggcctcat atgaactgtt tcagccacct tcagtgtccg tgtccccagg    120
acagacagcc actttcacct gctctggaga tgacttgggg aacaagtata tttgttggta    180
tctgcagaag ccaggccagc cccccgtggt actcatgtat caagataaca agcggccctc    240
agggatccct gagcgattct ctggctccaa ttctgggagc acagccaccc tgaccatcag    300
cgggacccag gctacggatg aggctctata tttctgtcag gcgtgggaca cgaatggagc    360
tgtgttcgga ggaggcaccc agttgaccgn                                     390



<210> 750
<211> 441
<212> DNA
<213> Homo sapiens


<400> 750
gattcaggtg gtttaggtga tcaaattgtt ttagaagagc ttggtggtcc atgcctatat     60
cttgaaggga atccaactta gctttaatta acattcttaa ccttcttacc tctctggatc    120
tcagttgtct catctgtaaa aaggagataa aaattattta cctgcctgaa catgaggtgg    180
aggaccatcc tgctacagta ttgctttctc ttgattacat gtttacttac tgctcttgaa    240
gctgtgccta ttgacataga caagacaaaa gtacaaaata ttcaccctgt ggaaagtgcg    300
```

```
aagatagaac caccagatac tggactttat tatgatgaaa tcgtttttaga agagcttggt      360
ggtccatgcc tatatcttga agggaatcca acttagcttt aattaacatt cttaaccttc      420
cgcacgcgtg ggtcgacccg g                                                 441
```

```
        <210> 751
        <211> 449
        <212> DNA
        <213> Homo sapiens


        <400> 751
gtggggaatt ccccagcaat cagactcaac agacggagca actgccatcc gaggctcctg       60
aaccagggcc attcaccagg agcatgcggc tccctgatgt ccagctctgg ctggtgctgc      120
tgtgggcact ggtgcgagca caggggacag ggtctgtgtg tccctcctgt gggggctcca      180
aactggcacc ccaagcagaa cgagctctgg tgctggagct agccaagcag caaatcctgg      240
atgggttgca cctgaccagt cgtcccagaa taactcatcc tccaccccag gcagcgctga      300
ccagagccct ccggagacta cagccaggga gtgtggctcc agggaatggg gaggaggtca      360
tcagctttgc tactgtcaca gactccactt cagcctacag ctccctgctc acttttcacc      420
tgtccactcc tcggtcccac cacctgtac                                        449
```

```
        <210> 752
        <211> 524
        <212> DNA
        <213> Homo sapiens


        <400> 752
tttcgtggcg aggcggcggt ggtggctgag tccgtggtgg cagaggcgaa ggcgacagct       60
ctaggggttg gcaccggccc cgagaggagg atgcgggtcc ggatagggct gacgctgctg      120
ctgtgtgcgg tgctgctgag cttggcctcg gcgtcctcgg atgaagaagg cagccaggat      180
gaatccttag attccaagac tactttgaca tcagatgagt cagtaaagga ccatactact      240
gcaggcagag tagttgctgg tcaaatattt cttgattcag aagaatctga attagaatcc      300
tctattcaag aagaggaaga cagcctcaag agccaagagg gggaaagtgt cacagaagat      360
atcagctttc tagagtctcc aaatccagaa aacaaggact atgaagagcc aaagaaagta      420
cggaaaccag gtagtctgga catttttcctt gctttttgat ttatttaggg gacaactgaa      480
aattttaagc taatgaataa agaggctgaa gaagaaaaaa aaaa                        524
```

```
        <210> 753
        <211> 474
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(474)
        <223> n = a,t,c or g


        <400> 753
nttganncac tgagacatta gtccangcgg nggaattcga tggcgctggc ggctttgatg       60
atcgccctcg gcagcctcgg cctccacacc tggcaggccc aggctgttcc caccatcctg      120
cccctgggcc tggctccaga cacctttgac gatacctatg tgggttgtgc agaggagatg      180
gaggagaagg cagccccct gctaaaggag gaaatggccc accatgccct gctgcgggaa      240
```

```
tcctgggagg cagcccagga gacctgggag gacaagcgtc gagggcttac cttgccccct    300
ggcttcaaag cccagaatgg aatagccatt atggtctaca ccaactcatc gaacaccttg    360
tactgggagt tgaatcangc cgtgcggacg ggcggaggct cccgggagct ctacatgagg    420
cactttccct tcaaggccct gcatttctac ctgatccggg ccctgcagct gctg          474
```

```
        <210> 754
        <211> 1222
        <212> DNA
        <213> Homo sapiens


        <400> 754
cagatcctca tctccctggg tagtgaggct catcacagac aagcaaccaa ctgctgggct    60
gccggtgccc cccatgttgg aacctgagtt ggagattatc tcctaagcag atacctgctt   120
ccaaactggg gatgtagggc ttggaaacta aaaaatgcca ggtctgaggg agaggaaaga   180
acaagtccag caatacacag agctctgtgt attcagaggg aagttggcag ggttgtgttc   240
gggcagagaa actccgagtg gtacaaaggg gacgtgccca gagtggagaa atcatgctaa   300
ttgtctgcac tagagctgga gaacgccacc caaaatgaag agagaaaggg gagccctgtc   360
cagagcctcc agggccctgc gccttgctcc ttttgtctac cttcttctga tccagacaga   420
cccccctggag ggggtgaaca tcaccagccc cgtgcgcctg atccatggca ccgtggggaa   480
gtcggctctg ctttctgtgc agtacagcag taccagcagc gacaggcctg tagtgaagtg   540
gcagctgaag cgggacaagc cagtgaccgt ggtgcagtcc attggcacag aggtcatcgg   600
caccctgcgg cctgactatc gggaccgtat ccgactcttt gaaaatggct ccctgcttct   660
cagcgacctg cagctggccg atgagggcac ctatgaggtc gagatctcca tcaccgacga   720
caccttcact ggggagaaga ccatcaacct tactgtagat gtgcccattt cgaggccaca   780
ggtgttgggg gcttcaacca ctgtgctgga gctcagcgag gccttcacct tgaactgctc   840
acatgagaat ggcaccaagc ccagctacac ctggctgaag gatggcaagc ccctcctcaa   900
tgactcgaga atgctcctgt cccccgacca aaaggtgctc accatcaccc gcgtgctcat   960
ggaggatgac gacctgtaca gctgcgtggt ggaaaacccc atcaaccagg gccggaccct  1020
gccttgtaag atcaccgaat acagaaaaag ctccctttca tcaatttggc tccaggaggc  1080
attttcctcc ttgggacctt ggtgaagacc tggccaacaa gggaaaaccc cgtctttatt  1140
aaaaatacaa aaaatgcccc cgctttgggt gtaagggcct gttttcccgc gcccttcggg  1200
aggttttgaa cagtaaatct cc                                           1222
```

```
        <210> 755
        <211> 667
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(667)
        <223> n = a,t,c or g


        <400> 755
tttcgtgcac ggtgtgcacg ctggactgga ccccccatgc aaccccgcgc cctgcgcctt    60
aaccaggact gctccgcgcg cccctgagcc tcgggctccg gcccggacct gcagcctccc   120
aggtggctgg gaagaactct ccaacaataa atacatttga taagaaagat ggctttaaaa   180
gtgctactag aacaagagaa aacgtttttc actcttttag tattactagg ctatttgtca   240
tgtaaagtga cttgtgaatc aggagactgt agacagcaag aattcaggga tcggtctgga   300
aactgtgttc cctgcaacca gtgtgggcca ggcatggagt tgtctaagga atgtggcttc   360
ggctatgggg aggatgcaca gtgtgtgacg tgccggctgc acaggttcaa ggaggactgg   420
ggcttccaga aatgcaagcc ctgtctggac tgcgcagtgg tgaaccgctt tcagaaggca   480
aattgttcag ccaccagtga tgccatctgc ggggactgct tgccaggatt ttataggaag   540
```

```
acgaaacttg tcggctttca agacatggag tggtggtngg cccttgttgg gagaacccccc    600
ttccttccct ccctttacgg aaacccggca cttggttgcc agccaagggt ccaaaccttc    660
ggggaaa                                                              667
```

```
        <210> 756
        <211> 411
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(411)
        <223> n = a,t,c or g


        <400> 756
atcctcctca gnggattttt ccttccttag taaagctgng tccatctgac actcagcctg     60
accctcttc ctcctcttgg aaggcgcaag tactctcccc gacctcgtta aaactcaccg     120
aaatccctga agaaacttaa atgtcctgct cctgtccgcc ctgcttcttc accctcttcc    180
tccactctat ttgccaagac atctcctggt ttcatcccca aactcccacc ttagattctc    240
tcttaaactg gatagatgat ctcatctttt acggcactct gtataacttc ttcccagaag    300
agacgcctct gtttaccttc ctactcactc tatatctatc cctcctgctc ctttggctac    360
ctggcatggc cgcactccca cttgcagtaa tgcctaatta cctctacaaa a             411
```

```
        <210> 757
        <211> 388
        <212> DNA
        <213> Homo sapiens


        <400> 757
tttcagccaa acttcgggcg gctgaggcgg cggccgagga gcggcggact ccgggcgcgg     60
ggagtcgagg catttgcgcc tgggcttcgg agcgtagcgc cagggcctga gcctttgaag    120
caggaggagg ggaggagaga gtggggctct tctatcggaa cccctcccc atgtggatcc     180
gccccaagcg gaggtcgcgg aggaggttat cgaaaatatg cccgccctgc gccccgcttt    240
gctgtgggcg ctgctgagcc tatggctgtg ctgcgcgacc cccgcgcctg cattgcaatg    300
tcctgaaggc tatgaaccct ccccactaga ccgaaagtgc gctccctacc ccaatgtcag    360
acgatcctgc ccatgcccag aaggtttt                                       388
```

```
        <210> 758
        <211> 843
        <212> DNA
        <213> Homo sapiens


        <400> 758
agcctgacca gttgttccca ggatccattg ttctccctcc ataaacaata aacagcactc     60
aggggaggga gggcccaaca ccggggtggg tggcgcccca gctgccgtcc tctgtgccac    120
atcagtaaac agcaacacaa caatcaactg ggcctttttg atgaagacaa aaccatagag    180
gaaaaccatt agaagaggta ataaaggccc ttcttataca gttaatagag agcctcctgg    240
atggaacaag accagctgtt gctactgaaa atttacttct gttttcaagt tcaaatagag    300
actaaaacat tatcttcacg ggaattgatt ttacgtcttc caaacacata tgccacctta    360
attgtgattt gtgtgatagt tcagctgctg aaagctttcg tttatctcta cctggttaaa    420
```

```
caactttaaa taataacaag tcaatatatc tgtttattga ccagggttct tctcatcccc    480
agagcacact gttgaagaag aaggtactta accctttgtt tccctagccc tgccacatat    540
ctcatttttc acattctcaa tggggagata taattgttta aaaaatggaa tgaagccggg    600
tggcatggct tacacttgta attccagcta tttgggaggc taaggcagga ggattgctcg    660
gggcccggag ttcaagacca gtctaggcaa catagtgaga ccccatctct acaaaaaata    720
aaaactaaca ccccgggttc ctgactactc aaaagggtga ggcagaggat cacttgagcc    780
cagaagcaga agctgggtga gctagactgg gcacgcactc ctcatggtgc agaagaaacc    840
tgc                                                                 843
```

```
        <210> 759
        <211> 647
        <212> DNA
        <213> Homo sapiens


        <400> 759
gaattcccgg gtcgacgatt tcgtgcggag ggcgaggagg agcagaggag cacacagatg     60
aagcaggtgt ccacgcgtcc ggccgtccat ccgtccgtcc ctcctggggc cggcgctgac    120
catgcccagc ggctgccgct gcctgcatct cgtgtgcctg ttgtgcattc tgggggctcc    180
cggtcagcct gtccgagccg atgactgcag ctcccactgt gacctggccc acggctgctg    240
tgcacctgac ggctcctgca ggtgtgaccc gggctgggag gggctgcact gtgagcgctg    300
tgtgaggatg cctggctgcc agcacggtac ctgccaccag ccatggcagt gcatctgcca    360
cagtggctgg gcaggcaagt tctgtgacaa agatgaacat atctgtacca cgcagtcccc    420
ctgccagaat ggaggccagt gcatgtatga cggggggcggt gagtaccatt gtgtgtgctt    480
accaggcttc catgggcgtg actgcgagcg caaggctgga ccctgtgaac aggcaggctc    540
cccatgccgc aatggcgggc agtgccagga cgaccagggc tttgctctca acttcacgtg    600
ccgctgcttg gtgggctttg tgggtgcccg ctgtgacgtg taaggtg               647
```

```
        <210> 760
        <211> 796
        <212> DNA
        <213> Homo sapiens


        <400> 760
atccctgtgg tgtaattccc cagctactcg ggagactgag gcagaagaat tgtttgaacc     60
cgggaagcgg agattgcagt gagctgaggt cgcaccattg cactccagcc tgggtgacag    120
ggagagggac tctgtctcaa aaaaaaactg aggtcaggga gggtgagatg acggtgagag    180
ctcggacttg aacgcaggtc ccacccagaa cagcagccct aactctgagc aaggtctgtg    240
ctgttcagta gctctattga gatgtgattt ccacactgtg taattcattc acttacggtg    300
tacagtccag tgggtcttag catgctcggt gttgacagtc acatcgtctt cacccccaaa    360
aggaaacccc gtgcccatga gcagtcgctt tgtctgcccc tcgtccccag ccccaggcaa    420
ccacaaatcc atgctctgtc tctgtagatt tgcctgttcc agacgtttca cagcaatggg    480
ccttttctgc ctggcttctt taacgttgca tcacatcttc aaggtccatc ccagctgcag    540
cgtgtcagtg cctcctggct tttcactgct gagtagtgcc cgttgcatgg acagaccacg    600
ttgtgctcac ctgtttgccc taatgggccc ctgcttgggg ctttccacct ttgggaggct    660
gtgaattgtg ctccagccac acttttgacc cccgcccggt ttccagaaga tgaccaggat    720
tggtcacttt cttcacccac ccaaggactt ttggtgggcc tgccgcaatc cgccccatcc    780
ttggtggctt gaggcc                                                   796
```

```
        <210> 761
        <211> 721
        <212> DNA
```

<213> Homo sapiens

<400> 761
```
gattacgcct agcttggcac gagggatcac ttgactccat cccctcccca ccaggactac      60
atctcccagc aggctgtgct ctgacagctc ttggatttaa ataggattct gggctctgct     120
cagagtcagg ctgctgctca gcacccagga cggagaggag cagagaagca gcagaagcag     180
ccaagagctg gagccagacc aggaacctga gccagagctg gggttgaagc tggagcagca     240
gcaaaagcaa cagcagctac agaagttgga acgatgctgg tcaccttggg actgctcacc     300
tccttcttct cgttcctgta tatggtagct ccatccatca ggaagttctt tgctggtgga     360
gtgtgtagaa caaatgtgca gcttcctggc aaggtagtgg tgatcactgg cgccaacacg     420
ggcattggca aggagacggc cagagagctc gctagccgag gagcccgagt ctatattgcc     480
tgcagagatg tactgaaggg ggagtctgct gccagtgaaa tccgagtgga tacaaagaac     540
tcccaggtgc tggtgcggaa attggaccta tccgacacca aatctatccg agcctttgct     600
gagggctttc tggcagagga aaagcagctc catattctga tcaacaatgc gggagtaatg     660
atgtgtccat attccaagac agctgatggc tttgaaaccc acctgggagt caaccacctg     720
g                                                                      721
```


<210> 762
<211> 716
<212> DNA
<213> Homo sapiens

<400> 762
```
ttttttttct aatcagaata catttctttc ttaatctttg ggagtacata ccaccatact      60
gggggcaatg gcggggagag cctttgtgga ccaggaagc tggggggga gttccatgct       120
agctctataa gccaggctct ggggcagcat ccaagacgct ctgtattaga tactgaccag     180
tctcatgtgc cactggtgag gaggaagaca acgtgctttt cccaaagggc gatgatctcc     240
ccagatgatg acccttctca ggaggcagga gcgctttccc ggaataacct tttggctcct     300
tattcagctg ctgcagcaga tactcattag ttaccaccag ggatctctga ctttcatgga     360
gaatggcaac tgtcttctcc agctttttca gctgggcaag ctcctggttc aggcaagcca     420
cctgcatggt cagctgttgg tttttgtgca gaagatcatc ataagtatgt gactgttgcc     480
cactcacaat tgagatggca gcaccttcct ccaactgttg aatttttct gacaaaatga      540
ggttttcctc cagcactctg accagttttt gcttcaaact ttccgagaaa cttcttgttg     600
aggaggaggg ggccggagcc attccagtgc ttatccacaa gctccaggag ctgtctgagg     660
acagtggcca catggggggg tctggcagag atggggggac tgtggtttcc agccaa         716
```


<210> 763
<211> 642
<212> DNA
<213> Homo sapiens

<400> 763
```
tttcgtcgga agcgagaccg tccatccaga ggaaggcaag ttttttggctc gggcggctga     60
gaagaccgcg cggggctgga gacaggtagc agtacggggg cggggcttca tgccggatgt     120
gatagtctgc agtcgtttcg gttggcagcc tggcgggtgg gagatgcggc ggccacctgc     180
tgcaaagaac cgaagggaag gttagaagta cgaaggcagt ttggagctgg ggctaagcag     240
ctgtcgcacg gtcagatcat gggctccacc aagcactggg gcgaatggct cctgaacttg     300
aaggtggctc cagccggcgt ctttggtgtg gcctttctag ccagagtcgc cctggttttc     360
tatggcgtct tccaggaccg gaccctgcac gtgaggtata cggacatcga ctaccaggtc     420
ttcaccgacg ccgcgcgctt cgtcacggag gggcgctcgc cttacctgag agccacgtac     480
cgttacaccc cgctgctggg ttggctcctc actcccaaca tctacctcag cgagctcttt     540
ggaaagtttc tcttcatcag ctgcgacctc ctcaccgctt cctcttata ccgcctgctg     600
```

ctgctgaagg ggctggggcg ccgccaggct tgtggctact gt   642

        <210> 764
        <211> 2280
        <212> DNA
        <213> Homo sapiens

        <400> 764
aggggattcg gcagctcctt ttcagctcgc tcggagcacc cacgcctcgc tgccccgctt   60
gctgccctca acctgggcat gcgcccccca cccttccggc ccccagaac ccgcgccatc   120
ccccggagcc tccccagagc tggccgcgca ggatgggcgc cctcaggccc acgctgctgc   180
cgccttcgct gccgctgctg ctgctgctaa tgctaggaat gggatgctgg gcccgggagg   240
tgctggtccc cgaggggccc ttgtaccgcg tggctggcac agctgtctcc atctcctgca   300
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aggccccaga tactgcactg ggcattgtca gtaccaagga tacccagttc tcctatgctg   420
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cctccactga taccccgctac ctgggcagct acagcggcaa ggtggagctg agagttcttc   600
cagatgtcct ccaggtgtct gctgcccccc cagggccccg aggccgccag gccccaacct   660
cacccccacg catgacggtg catgaggggc aggagctggc actgggctgc ctggcgagga   720
caagcacaca gaagcacaca cacctggcag tgtcctttgg gcgatctgtg cccgaggcac   780
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ccgatcggta ccgcatggta gtaggggtg cccaggcagg ggacgcaggc acctaccact   960
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gcacagtgta ccgcggggag actgcctccc tgctgtgcaa catctctgtg cggggtggcc   1560
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tttcctgtcc tggaattagt ttttctaaaa tgtgaataaa cttgttttat aaaaaaaaaa   2280

        <210> 765
        <211> 555
        <212> DNA
        <213> Homo sapiens

        <400> 765

```
tttcgtccgg gaccagcgcc tccccgcttc gcgctgccct cggcctcgcc ccgggcccgg      60
gtggatgagc cgcgcgcccg ggggacatgg aagcgctgac gctgtggctt ctcccctgga     120
tatgccagtg cgtgtcggtg cgggccgact ccatcatcca catcggtgcc atcttcgagg     180
agaacgcggc caaggacgac agggtgttcc agttggcggt atccgacctg agcctcaacg     240
atgacatcct gcagagcgag aagatcacct actccatcaa ggtcatcgag gccaacaacc     300
cattccaggc tgtgcaggaa gcctgtgacc tcatgaccca ggggattttg gccttggtca     360
cgtccactgg ctgtgcatct gccaatgccc tgcagtccct cacggatgcc atgcacatcc     420
cacacctctt tgtccagcgc aacccgggag ggtcgccacg caccgcatgc cacctgaacc     480
ccagccccga tggtgaggcc tacacactgg cttcgagacc acccgtccgc ctcaatgatg     540
tcatgctcag gctgg                                                      555
```

```
            <210> 766
            <211> 2744
            <212> DNA
            <213> Homo sapiens


            <400> 766
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agaaagcctc agtgttgctc ttcctggcct gggtctgctt cctcttctac gctggcattg     120
ccctcttcac cagtggcttc ctgctcaccc gtttggagct caccaaccat agcagctgcc     180
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gatctcaggt tgaccctcct accaccacca tgcagcgcct caaggccctc accactggct     480
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gccccacagc agtcttcccc agcaccccac cagaggaccc agaggtgatt cctcaagtta    1020
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tgctcctggt tgtccagctt cactgggagg gccagctgct tccacctaag ctactcacaa    1860
tgccccgcct tggcacttca gccacaacaa accccccacg gcacaatggt gcatatgccc    1920
tgaggcttgg aattgggttg ctttttatgta caaggctagc tgggcttttt catcgttgcc    1980
ctgaagagac acctgtttgc cactcctctc cctggctgag tcctctggca tccatggtgg    2040
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ctgccgtgcg cttgtggctt cgccgctatg gtaatctcaa gagccccgag ccacccatgc    2160
tctttgtgcg ctggggactg ccccctaatgg cattgggtac tgctgcctac tgggcattgg    2220
cgtcgggggc agatgaggct cccccccgtc tccgggtcct ggtctctggg gcatccatgg    2280
tgctgcctcg ggctgtagca gggctggctg cttcagggct cgcgctgctg ctctggaagc    2340
```

```
ctgtgacagt gctggtgaag gctggggcag gcgctccaag gaccaggact gtcctcactc      2400
ccttctcagg cccccccact tctcaagctg acttggatta tgtggtccct caaatctacc      2460
gacacatgca ggaggagttc cggggccggt tagagaggac caaatctcag ggtcccctga      2520
ctgtggctgc ttatcagttg gggagtgtct actcagctgc tatggtcaca gccctcaccc      2580
tgttggcctt cccacttctg ctgttgcatg cggagcgcat cagccttgtg ttcctgcttc      2640
tgtttctgca gagcttcctt ctcctacatc tgcttgctgc tgggataccc gtcaccaccc      2700
ctggtaaata tctcagctct gattcactta aagacaatag tgat                       2744
```

```
          <210>.767
          <211> 920
          <212> DNA
          <213> Homo sapiens


          <400> 767
ccgagcagca tcatcgttcc aattataccc cgttggagca tcggcagatc ttccactctt        60
ggacaacgca atcaaaatct tcgtacccat tttgcagtag tgatctctaa actctcagcg       120
taggcatcgg gaaccttcgt gccaaggagc catgctgccc cgatgggaac tggcacttta       180
cctacttgcc tcactaggct tccacttcta ttccttctat gaagtttaca aagtctccag       240
aggatgcgac cgactttgag tggagcttct ggatggaatg ggggaagcag tggctggtgt       300
ggcttctcct tggccacatg gtagtgtctc aaatggccac actgctggca agaaagcaca       360
gaccctggat tctcatgctc tatgggatgt gggcctgctg gtgtgtgctg gggacccctg       420
gtgtggctat ggttttgctc cataccacca tctctttctg cgtggcccag ttccggtctc       480
agctcctgac gtggctctgt tctctcctcc tcctccac actgaggctg cagggtgtgg          540
aagaagttaa gagaaggtgg tacaagacag aaaacgagta ctacctgctg cagttcacgc       600
tgaccgttcg ctgcctgtac tacaccagct tcagcctgga gctctgctgg cagcagctgc       660
ctgctgcatc gacctcctac tcctttccct ggatgctggc ctatgtcttt tattatccag       720
tcttacacaa tgggcccatc ctcagcttct cggagttcat caaacagaga agccagtggt       780
caaataggga atttggcatg gaggttgaga gcaaaggtcc tggagcccac cctccagggt       840
ttgaatccct gctgtgcttc ggcttgagag tgcttgctga gttacttacc ttacttatgc       900
ctcagtcttc ttatcagtga                                                   920
```

```
          <210> 768
          <211> 580
          <212> DNA
          <213> Homo sapiens


          <400> 768
agcatacaaa tgaaagtaaa ttaccgagtc ttagctgttc ctatcctagc aggatttata        60
tttgacagca gaacacgagc tacagacttg caaaacctga agagcctcat caaacatcta       120
aattgggatg gctttactgt gcctatttaa aaaaaaaaat gagagacttg ggcaatatga       180
taactacttt gaattgtatt aagagagtct ccaaaacaga agcactgtag atttattcta       240
cttcttcatt ctcttttcct ttcccttact ttttaggtta ctcagagagg gcaatgcttt       300
actatgaact ggaagacggg ctgtacacca ctggtccata tttctttgcc aagatcctcg       360
gcgagcttcc ggagcactgt gcctacatca tcatctacgg gatgcccacc tactggctgg       420
ccaacctgag gccaggcctc cagcccttcc tgctgcactt cctgctggag tggctggcgg       480
tcttctgttg caagattatg gtcctggccg ccgcgggcct gctccccacc ttacacatgg       540
cctccttctt cagcaatgcc ctctacaact gcttctacct                             580
```

```
          <210> 769
          <211> 531
          <212> DNA
```

```
    <213> Homo sapiens


    <400> 769
    tttcgtcggg aggctgcgag gactgcaaaa gggtggagtc tgcctcgccc ccgcccaggc      60
    cccgcccctg ccgggaaccc actttcccag tcctaggcgg cggtcagatc cttgcaagca     120
    tggtcgcgcc ggggcttgta ctcgggctgg tgctgccatt aatcctgtgg gccgacagaa     180
    gtgcaggtat tggttttcgc tttgcttcat acatcaataa tgatatggtg ctgcagaagg     240
    agcctgctgg ggcagtgata tggggcttcg gtacacctgg agccacagtg accgtgaccc     300
    tgcgccaagg tcaggaaacc atcatgaaga aagtgaccag tgtgaaagct cactctgata     360
    cgtggatggt ggtactggat cctatgaagc ctggaggacc tttcgaagtg atggcacaac     420
    agactttgga gaaaataaac ttcaccctga gagttcatga cgtcctgttt ggagatgtct     480
    ggctctgtag tgggcagagt aacatgcaaa tgactgtgtt acaaatattt a               531


    <210> 770
    <211> 1072
    <212> DNA
    <213> Homo sapiens


    <400> 770
    cacacacgtg tgttggtgtg tgtacacaag tgctgatggt gaaaacagtg acacacacac      60
    ctgtgtaggc atgcacacac ctgccttgat gtgtgacgac gtgatgatgt gtatgcagac     120
    acctgtgttg atgtgtgcct acatatgttg acacaggcac acatggtgtg tctgtacatg     180
    caaatggaca cacatgaaca cacgtgttta tgcatgtcct tgtgtgttga tgtgtctgca     240
    catacatgtt gatgtgtccc gctgtggttg gcctttctgg ggccaggccc agcacctggg     300
    gtttccagga aacattccct gtcccttccc ggaatggccg gtacttgctg tgcctccgcc     360
    gggagatgca ccctgattaa ctagaacgtg gcgaagctca gccacctgga atcgccttac     420
    cctggccttt ggtttctagc aaatgggatg gaagtgagtc cccatggagg gcttgctcca     480
    tgaaagtgtt tttcctggat gagtcttggc cccagtggcg atttgctgca ggcttgttgg     540
    cactgtcatt cgggggtcct gcatggaagt tccttagtgt ccagagggtg attccatggc     600
    tgtgggcagc aaaagagaag cccctggggc cattagccac acccccaagg ctgaacccaa     660
    aagttggggt ataaactttt gccctgtgag attatgtgat gaaatttttg ttcctgtttt     720
    ttgttggcga gctgcggcat tacaacatct caaccactaa tgtggggata taagccttat     780
    gctgccggc aacatatccg ctgcattaaa aatcctttat taactttca ctatctgttg     840
    ttaaaacctt tattctgtcc cttggagcac gtgcgagggt tccgcattag cggtcggagc     900
    ctagattatc ctcacgcgtc tgtggccggg gtgtatcggc gttttgtttt caaggcagtc     960
    tctaccttct acattaatcg tcttgtgtat cgttttctca cgcgatccga tgtgatgatc    1020
    ctaattcagt agcgccgcgc aggactccac gggggtgaga gctagttact tt             1072


    <210> 771
    <211> 1271
    <212> DNA
    <213> Homo sapiens


    <400> 771
    catctttgga cttcctggct gatttataaa tttagtatcc agttcctcat atgctgcatt      60
    tttttgtaca gttcctgagt agtctcactt ttgagagtat ctattaagtg cataccaggg     120
    aatgtttaat ccctctgtct caactgtcag ctgttttgtt gactaaggcc tttgtataaa     180
    ctatgcttca tgttacacaa caggtttgac attctgttgt ctctccactc ttgtacttca     240
    cagaaaaccc gcctagtgcc aagcaaccct ccaagatgct agttatcaaa aaagtttcca     300
    aagaggatcc tgctgctgcc ttctctgctg cattcacctc accaggatct caccatgcaa     360
    atgggaacaa attgtcatcc gtggttccaa gtgtctataa ggaacctggt tcctaagcct     420
    gtaccacctc cttccaagcc taatgcatgg aaagctaaca ggatggagca caagtcagga     480
```

                                          479

```
tccctttcct ctagccggga gtctgctttt accagtccaa tctctgttac caaaccagtg      540
gtactggcta gtggtgcagc tctgagttct cccaaagaga gtccctccag caccacccct      600
ccaattgaga tcagctcctc tcgtctgacc aagttgaccc gccgaaccac cgacaggaag      660
agtgagttcc tgaaaactct gaaggatgac cggaatggag acttctcaga gaatagagac      720
tgtgacaagc tggaagattt ggaggacaac agcacacctg aaccaaagga aaatggggag      780
gaaggctgtc atcaaaatgg tcttgccctc cctgtagtgg aagaaggga ggttctctca       840
cactctctag aagcagagca caggttattg aaagctatgg gttggcagga atatcctgaa      900
aatgatgaga attgccttcc cctcacagag gatgagctca agagttcca catgaagaca       960
gagcagctga gaagaaatgg ctttggaaag aatggcttct tgcagagccg cagttccagt     1020
ctgttctccc cttggagaag cacttgcaaa gcagagtttg aggactcaga caccgaaacc     1080
agtagcagtg aaacatcaga tgacgatgcc tggaagtagg catataaatg ctcacagtta     1140
aatctgaccc agtaaactct gtgtgtttag ggagtataca aaagaaatcg ttcttgttcc     1200
ttttcttatg ttggttgaat agttcgagtt cacaagggag atgagcatgt gccaaagaga     1260
gaaaaaaagt c                                                         1271


         <210> 772
         <211> 1017
         <212> DNA
         <213> Homo sapiens


         <400> 772
         tttttttttt ttggagtttt tcagaacaaa tgtttattta ataattaagg gcaaacaaaa       60
         acattaaagc ataggaattc atcaactgaa tacaagttgt cttgtttggt ctgaaatctt      120
         gaaaagtta atctaactac ttacctgagg taaatttagg ttggcactgc ttcaagggaa       180
         cctccgtcca tcccaaaagt taccttttaa ttttggttac aggctcccaa gtggtcctct      240
         ccaacctcag gttatgctat atgaataata ccaacacctt tttctcccat ggttaaaagc      300
         cttcagcctt gtttcatacc cccatagttc tcttataatg tggtgattgc aatcctttcc      360
         ctgggattaa aaggtatttc ctctttcctt ggcagaactt cattaaagac gtcctgttta      420
         gtctgtcaca gatgtcaatc aggcatcttc tccccagcaa gagagtgacc acttccacat      480
         ggccatgggc acaggccaaa tgtagaacag tcgacggaag ctcggttggg gtttctgcag      540
         aagtttcccc cttgggcggt ggcggagctg ataagcgcgc tagtagcagc tctggcagaa      600
         gcaacggtgg cttcgaggga tggcggcggc tgcaacagga cctgcagcat cccagaggaa      660
         ctgactaaga ctttggaaca gaaaccagat gatgcacaat attatcgtca aagagcttat      720
         tgtcacattc ttcttgggaa ttactgtggt gcagatgcta atttcagtga ctggattaaa      780
         aggtgtcgaa gctcagaatg gctcggaatc tgaggtgttt gtggggaagt atgagaccct      840
         cgtgttttac tggccctcgc tgctgtgcct tgccttcctg ctgggccgct tcctgcatat      900
         gtttgtcaag gctctgaggg tgcacctcgg ctgggagctc caggtggaag aaaaatctgt      960
         cctggaagtg caccagggag agcacgtcaa gcagctcctg aggataccc gccctca       1017


         <210> 773
         <211> 980
         <212> DNA
         <213> Homo sapiens


         <400> 773
         tttcgtacgc gatgcccgag ggcgctgtga gcggggtggc cttagctcgc cgaggctggt       60
         cagtgagagg gcatactggg aagccctctg gagtgggaag acagtgccgc tgttgagaca      120
         agacccagga ctgggccggg gactgtccca aagggtttct cgtcataatg gctgtggaag      180
         ggtcaaccat taccagccgg atcaagaatc tgttgagatc tccatccatc aaactgcgca      240
         ggagtaaggc aggaaaccga cgagaggacc tcagctccaa ggtgaccttg agaaggtgc       300
         tgggaattac agtgtctgga ggcagaggac ttgcctgtga cccccgatca ggtttagttg      360
         cttacccagc agggtgtgtg gttgtgttgt tcaatccccg gaaacacaaa cagcaccaca      420
         tcctcaacag ttccaggaaa accatcactg cccttgcctt ctcccctgat ggcaagtact      480
```

```
tggtcactgg agagagtggg cacatgcctg ccgtgcgggt ttgggacgtg gcagagcaca      540
gccaggtggc cgagctgcag gagcacaagt atggtgtggc ttgtgtggcc ttctctccta      600
gcgccaagta cattgtctct gtgggctacc agcatgacat gatcgtcaac gtgtgggcct      660
ggaagaaaaa cattgtggtg gcctccaaca aggtgtccag tcgggtgaca gcagtgtcct      720
tctctgagga ttgcagctac tttgtcactg caggcaaccg acacatcaaa ttctggtatc      780
tcgatgacag caagacctca aaggtgaggt gctgaagctg ggagtagcca ccaaggcccc      840
tggcagggcc tgcccagccc aacccaggag actctgcccc acttgggcct ctctctgcat      900
tcccagcagt catgcagaag ttttggatga gccagatgct gtctgggata aggagtaggc      960
ccaaagagca aggatgtatt                                                  980
```


```
              <210> 774
              <211> 1224
              <212> DNA
              <213> Homo sapiens


              <400> 774
atgtttaagg taattgcttc agagcaaagc aaagtcaaac tgggaccaaa aacgaccaag       60
accttgagtt accatcccag aaacggatct ctcacactga tcctcagtaa gatttggaaa      120
tgccaaggcc ttgctgtggt tcttaaaata attttttcaac ctaatctaat agggtgttca     180
aaaataattg tgatgtttgc aatagagtgt attaagctgt ccttgcattg ctataaagaa      240
gtaccggaga caggagaata tgatgagagg gactttggag ggtcccttcg tgttgtcaga      300
ctgccagcg caacagttgg aagccaggca ccaccagcaa tagagatgag aaattctgaa       360
gaacagccaa gtggagggac cacggtattg cagcgtttgc tacaagagca gcttcgctat      420
ggcaatccta gtgagaatcg cagcctgctt gccatacacc agcaagccac agggaatggc      480
cctcctttcc ccagtggcag tgggaacccg ggccctcaga gtgatgtgtt gagtccccaa      540
gaccaccacc aacagcttgt ggctcatgct gctcgacaag aaccccaggg gcaggaaatc      600
cagtcagaaa acctcatcat ggagaagcag ctgtctcctc gaatgcaaaa taatgaagaa      660
ctcccgacct atgaagaagc caaggtccag tcccagtact ttcggggcca acagcatgcc      720
agtgttggag ctgccttcta tgtcactgga gtcaccaacc agaagatgag gactgaggga      780
cgcccatcag ttcagcggct caatcctgga aagatgcacc aagatgaggg actcagagac      840
cttaagcaag ggcatgtccg ttccttgagt gaacgactaa tgcagatgtc actggccacc      900
agtggagtta aggcccatcc acctgttacc agtgctcccc tctccccacc acaacccaat      960
gacctctaca agaatcccac aagttccagt gaattctaca aggcccaagg gccacttcct     1020
aaccagcata gcctgaaggg catggaacac cgaggcccccc caccagaata tcccttcaag     1080
ggcatgccac cccaatctgt agtgtgcaag ccccaagagc cagggcactt ctatagtgag     1140
catcgcctga accagccagg gagaacagag gggcaactga tgaggtatca gcatcccccct     1200
gagtatggag cagccaggtg tatt                                            1224
```


```
              <210> 775
              <211> 1232
              <212> DNA
              <213> Homo sapiens


              <400> 775
agggccgcaa tcagagaaca ccgccaggac ttccaggact tggtctccag gactgaggtc       60
aactgacgtg ggcgtggtct gactgtgtgg gcgtggccag ggaatgaact cacggctctg      120
gcttaagggg tgtggtgaac gaaggatggg gcgtggctgt gtcaccaagg gcgtggtcat      180
ggagtagagg cccgggctcc tgggtgaggc cggcaagttt ggagcgtggt cagacaatag      240
gggcgtggct acggctcgcg gagcgcaacc aacgctctag accagacctg ggctcgagac      300
cataactgtt tggctttaac agtacgtggg cggccggaat ccgggagtcc ggtgacccgg      360
gctgtggtct agcataaagg cggagcccag aagaaggggc ggggtatggg agaagcctcc      420
ccacctgccc ccgcaaggcg gcatctgctg gtcctgctgc tgctcctctc tacccctggtg      480
atccctccg ctgcagctcc tatccatgat gctgacgccc aagagagctc cttgggtctc      540
```

481

```
acaggcctcc agagcctact ccaaggcttc agccgacttt tcctgaaagg taacctgctt      600
cggggcatag acagcttatt ctctgccccc atggactttc ggggcctccc tgggaactac      660
cacaaagagg agaaccagga gcaccagctg gggaacaaca ccctctccag ccacctccag      720
atcgacaaga tgaccgacaa caagacagga gaggtgctga tctccgagaa tgtggtggca      780
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aaggaggccc tggtacccat ccagaaggcc acggacagct tccacacaga actccatccc      900
cgggtggcct tctggatcat taagctgcca cggcggaggt cccaccagga tgccctggag      960
ggcggccact ggctcagcga gaagcgacac cgcctgcagg ccatccggga tggactccgc     1020
aaggggaccc acaaggacgt cctagaagag gggaccgaga gctcctccca ctccaggctg     1080
tccccccgaa agacccactt actgtacatc ctcaggccct ctcggcagct gtaggggtgg     1140
ggaccgggga gcacctgcct gtagccccca tcagaccctg ccccaagcac catatggaaa     1200
taaagttctt tcttacatct aaaaaaaaaa aa                                   1232
```

```
          <210> 776
          <211> 708
          <212> DNA
          <213> Homo sapiens


          <400> 776
tttcgtgtgg ctccttgcgt tcctacatcc tctcatctga gaatcagaga gcataatctt       60
cttacgggcc cgtgatttat taacgtggct taatctgaag gttctcagtc aaattctttg      120
tgatctactg attgtggggg catggcaagg tttgcttaaa ggagcttggc tggtttgggc      180
ccttgtagct gacagaaggt ggccagggag aaggcagcac actgctcgga gaatgaaggc      240
gcttctgttg ctggtcttgc cttggctcag tcctgctaac tacattgaca atgtgggcaa      300
cctgcacttc ctgtattcag aactctgtaa aggtgcctcc cactacggcc tgaccaaaga      360
taggaagagg cgctcacaag atggctgtcc agacggctgt gcgagcctca cagccacggc      420
tccctcccca gaggtttctg cagctgccac catctcctta atgacagacg agcctggcct      480
agacaaccct gcctacgtgt cctcggcaga ggacgggcag ccagcaatca gcccagtgga      540
ctctggccgg agcaaccgaa ctagggcacg gccctttgag agatccacta ttataagcag      600
atcatttaaa aaaataaatc gagctttgag tgttcttcga aggacaaaga gcgggagtgc      660
agttgccaac catgccgacc agggcaggga aaattctgaa aacaccac                   708
```

```
          <210> 777
          <211> 446
          <212> DNA
          <213> Homo sapiens


          <400> 777
tccaaccagt tgtaaggaga atggagagtg cagtgagagt ggagtccggg gtcctggtcg       60
gggtggtctg tctgctcctg gcatgccctg ccacagccac tgggcccgaa gttgctcagc      120
ctgaagtaga caccaccctg ggtcgtgtgc gaggccggca ggtgggcgtg aagggcacag      180
accgccttgt gaatgtcttt ctgggcattc catttgccca gccgccactg ggccctgacc      240
ggttctcagc cccacaccca gcacagccct gggagggtgt gcgggatgcc agcactgcgc      300
ccccaatgtg cctacaagac gtggagagca tgaacagcag cagatttgtc ctcaacggaa      360
aacagcagat cttctccgtt tcagaggact gcctggtcct caacgtctat agcccagctg      420
aggtccccgc agggtccggt aggccg                                          446
```

```
          <210> 778
          <211> 416
          <212> DNA
          <213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(416)
<223> n = a,t,c or g


<400> 778
ccgagcactg ggacttcaac gccaccatct ccaagactcg gtttgggggtg aaagatggcg      60
ctgactgggt acagctggct gctcctcagt gccacattcc tgaatgtggg ggccgagatc     120
tctatcaccc tggagcctgc ccagccgagc gaaggggaca acgtcacgct ggtcgtccat     180
gggctttcgg gggaactgct cgcctacagc tggtatgcgg ggcccacact cagcgtgtca     240
tacctggtgg ccagctacat cgtgagcaca ggcgatgaga ctcctggccc ggcccacacg     300
gngcgggagg ctgtgcgccc cgatggcagc ctggacatcc agggcatcct gccccggcac     360
tcaagcacct acatcctgca gaccttcaac aggcagttgc agaccgaggt gggctn        416



<210> 779
<211> 382
<212> DNA
<213> Homo sapiens


<400> 779
ctttttcctg atttcagaga aacttttctt gattcatgga atcagtatct tctaagaaat      60
gagttggttg gctaatggag tttgtctata tgagtacttg tttttcagat gtggctttct     120
aattttgcaa ccttgttctt ttgatgctag tttaacggat gaagagtccc ggaaaaattg     180
ggaagaattt ggaaatccag atgggcctca aggtgtggta aatgatgatt ttaaaatatt     240
ggcgatatgg tatatattat aaaaatgtta accagattaa aggaataata ttattttctt     300
actaaactta tactcacatg gagtttaaca tagataaatt gagctctcat taattttgc      360
tttatttttc tttctaaaga cg                                            382



<210> 780
<211> 437
<212> DNA
<213> Homo sapiens


<400> 780
gtggacttcg tcattattgc tgtggtttga gctcagcatg gctgtagtca tccgtttact      60
ggggcttcct tttattgcgg ggcctgtgga tattcgtcac ttcttcacgg gattgactat     120
tcctgatgga ggagtgcata taattggagg ggaaattggg gaggctttta ttattttttgc    180
aacagatgaa gatgcaagac gtgccataag tcgttcagga gggtttatca aggattcatc     240
tgtagagctc tttcttagta gcaaggcaga aatgcagaag actatagaaa tgaaaagaac     300
tgatcgtgta ggaagagggc gtccaggatc tgggacatca ggggttgaca gcctgtctaa     360
ttttattgag tctgttaagg aagaagcaag taattctgga tatggctctt caattaatca     420
agatgctggg tttcatg                                                  437



<210> 781
<211> 476
<212> DNA
<213> Homo sapiens
```

```
     <400> 781
ggccttggcc cagcagggac cccagggcct tgggggactg tgtgagctgg aaacgtggct    60
ggccagatgg gcagcaccat ggagccccct gggggtgcgt acctgcacct gggcgccgtg   120
acatcccctg tgggcacagc ccgcgtgctg cagctggcct ttggctgcac taccttcagc   180
ctggtggctc accggggtgg ctttgcgggc gtccagggca ccttctgcat ggccgcctgg   240
ggcttctgct tcgccgtctc tgcgctggtg gtggcctgtg agttcacacg gctccacggc   300
tgcctgcggc tctcctgggg caacttcacc gccgccttcg ccatgctggc caccctgcta   360
tgcgcgacgg ctgcggtcct gtatccgctg tactttgccc ggcgggagtg tccccccgag   420
cccgccggct gtgctgccag ggacttccgc ctggcagcca gtgtcttcgc cgggct       476
```

```
     <210> 782
     <211> 753
     <212> DNA
     <213> Homo sapiens
```

```
     <400> 782
ctcccaaagt gccaggatta caggcgtgag ccaccacgcc cagcctaggt tttaagcctc    60
acatgtatta ggtatttata ctaatgctct ccctcccctt gccctccacc cactgtaaaa   120
ataatttta tactcttctg catttgctaa atttcctctc attagcaggt tatacctta    180
tgatcagaaa aaaaattaaa cactgcttct aaaaaatact catctccagc acttggagat   240
cacctacctc tacattctac ccaactgagc ccaatttagt cttctcaggg ctttgcccaa   300
gaacagttca ggaatgcatg cctctgaagg ccttcctgct cttccccttc tggccttggt   360
atctcattct cattcctgcc ctccctacc tctccaaccc catcacttgc cagccatcct   420
gttcttcctt gttggtcatc agttaatgaa gtgtattagg tgacctgagt acttgtcagt   480
acttcccaga ggcaagaaca ttcctcgcag atcaaggtac ctttaagagc caagaagctc   540
agatttggag gcgggagagc tgtactgcat cccctcaaat gttagcagtg ccaagaaatg   600
agacgctagt ctagggggca ccacaagcag aaaggggctg tttcaaggag tcgtccgccc   660
atgggagtct cctcttctat tattcacctt gctccaagga tatctttct tttacgtatg   720
aaaattttgt aattgttcaa ctataacacc atg                                 753
```

```
     <210> 783
     <211> 769
     <212> DNA
     <213> Homo sapiens
```

```
     <220>
     <221> misc_feature
     <222> (1)...(769)
     <223> n = a,t,c or g
```

```
     <400> 783
tttcgtagct gatggaagat gagccccaac ttctaaaaat gtatcactac cgggattgag    60
atacaaacag catttaggaa ggtctcatct gagtagcagc ttcctgccct ccttcttgga   120
gataagtcgg gcttttggtg agacagactt tcccaaccct ctgccccgcc ggtgcccatg   180
cttctgtggc tgctgctgct gatcctgact cctggaagag aacaatcagg ggtggcccca   240
aaagctgtac ttctcctcga tcctccatgg tccacagcct caaaggaga aaaagtggct   300
ctcatatgca gcagcatatc acattcccta gcccaggag acacatattg gtatcacgat   360
gagaagttgt tgaaaataaa acatgacaag atccaaatta cagagcctgg aaattaccaa   420
tgtaagaccc gaggatcctc cctcagtgat gccgtgcatg tggaatttc acctgactgg   480
ctgatcctgc aggctttaca tcctgttttt gaaggagaca atgtcattct gagatgtcag   540
gggaaagaca acaaaaacac tcatcacaag gtttactaca aggatggaaa acagnttct    600
aatagttata atttagagaa gaatacagtg gattcagtct cccgggataa tagcccatat   660
tattgtgctg ggtaaaagag agtttacata cttgggattg gagaacttta aaacccccaa   720
```

```
ttatccaagt ttacgggaag gggcctatac tccggagtac caggggggg              769
```

```
            <210> 784
            <211> 979
            <212> DNA
            <213> Homo sapiens


            <400> 784
cagaggctcg ggaaggggcg tggatccccg gaggcggtcc ccgggttgca gtgagggaag    60
tgggccggga ggagagatgg gcggtgaaga ggcccggccc tgccagggag gcgggcggat   120
ccgtggcagt gaccagaagg ggccggaagg gggtggccgc cggccgggcc ccgccctggg   180
gccgcctccc cgcgggttcc gttggctgtg gcggcagctg acgcttgtgg cggcggtggc   240
ttcggggtgg gcgtaagatg gcgacagcag cgcagggacc cctaagcttg ctgtggggct   300
ggctgtggag cgagcgcttc tggctacccg agaacgtgag ctgggctgat ctggaggggc   360
cggccgacgg ctacggttac ccccgcggcc ggcacatcct.ctcggtgttc ccgctggcgg   420
cgggcatctt cttcgtgagg ctgctcttcg agcgatttat tgccaaaccc·tgtgcactcc   480
gtattggcat cgaggacagt ggtccttatc aggcccaacc caatgccatc cttgaaaagg   540
tgttcatatc tattaccaag tatcctgata agaaaaggct ggagggcctg tcaaagcagc   600
tggattggaa tgtccgaaaa atccaatgct ggtttcgcca tcggaggaat caggacaagc   660
ccccaacgct tactaaattc tgtgaaagca tgtaagtacg caaggaggga gggaggggaat   720
aaggaagacg gtgggataca actggactga agtttctgtt ttgaacatca cttctgttgt   780
taggacaaca gttaatggat atagagaact aactcagcct attataggta ggaaagaagg   840
gaactggaac actgattccc ttaagtttct tgggcatgtt gccactaagc taggtgtggt   900
tctattttgt tcccttttcc taaatagatt gggagtaaat ccttataact gtacttatgt   960
aagtagatgt actaacaca                                                979
```

```
            <210> 785
            <211> 550
            <212> DNA
            <213> Homo sapiens


            <400> 785
ctttcgtgga agaaggaaga agagggtaga ggaggagagg gaggaggagg agggaggtgg    60
cggcgccgtg gcggaggagc aggagcagga gggggatgga gaggagaagg ctcctgggtg   120
gcatggcgct cctgctcctc caggcgctgc ccagcccctt gtcagccagg gctgaacccc   180
cgcaggataa ggaagcctgt gtgggtacca acaatcaaag ctacatctgt gacacaggac   240
actgctgtgg acagtctcag tgctgcaact actactatga actctggtgg ttctggctgg   300
tgtggaccat catcatcatc ctgagctgct gctgtgtttg ccaccaccgc cgagccaagc   360
accgccttca ggcccagcag cggcaacatg aaatcaacct gatcgcttac cgagaagccc   420
acaattactc agcgctgcca tttttatttca ggttttttgcc aaactattta ctacctcctt   480
atgaggaagt ggtgaaccga cctccaactc ctcccccacc atacagtgcc ttccagctac   540
agcagcaacg                                                          550
```

```
            <210> 786
            <211> 932
            <212> DNA
            <213> Homo sapiens

            <220>
            <221> misc_feature
            <222> (1)...(932)
```

485

```
      <223>  n = a,t,c or g


      <400>  786
tttcgtcccg  taccgccagg  cgatcgcgct  gatggcggcg  ctggcagcag  cggccaagaa     60
ggtgtggagc  gcgcggcggc  tgctggtgct  gctgttcacg  ccgctcgcgc  tgctgccggt    120
ggtcttcgcc  ctcccgccca  aggaaggccg  ctgcttgttt  gtcatcctgc  tcatggcggt    180
gtactggtgc  acggaggccc  tgccgctctc  agtgacggcg  ctgctgccca  tcgtcctctt    240
cccgttcatg  ggcatcttgc  cctccaacaa  ggtctgcccc  cagtacttcc  tcgacaccaa    300
cttcctcttc  ctcagtgggc  tgatcatggc  cagcgccatt  gaggagtgga  acctgcaccg    360
gcgaatcgcc  ctcaagatcc  tgatgcttgt  tggagtccag  ccggccaggc  tcatcctggg    420
gatgatggtg  accacctcgt  tcttgtccat  gtggctgagc  aacaccgcct  ccactgccat    480
gatgcttccc  attgccaatg  ccatcctgaa  aagtctcttt  ggccagaagg  aggttcgaaa    540
ggacccccag  ccaggagagt  gaagagaaca  cagggaatag  aaccccaata  cctntcctct    600
ctgaggaaag  gctgaaactt  caagctcccc  ttgtgataag  acttggtcag  ataactgagt    660
ctggtcaatg  gaatatgagt  ggaaatgatg  tgtgcaactt  ccgggttctg  tccttcctgc    720
cgggtggaat  gtgaatatga  tggcacctgg  gacccaaaga  caggagccac  atcttgagag    780
atagatggca  gatctgcccc  tgtggctttg  gatcatttac  ctcagtgaac  acaacaagca    840
ttatccatga  aaccataggt  tttgtgtgct  agttctagtt  tttaaaatat  gaattaaatt    900
aaatacgtat  ctgttaaaac  ttaaaaaaaa  aa                                    932
```

```
      <210>  787
      <211>  514
      <212>  DNA
      <213>  Homo sapiens

      <220>
      <221>  misc_feature
      <222>  (1)...(514)
      <223>  n = a,t,c or g


      <400>  787
tttcgtctgg  agcaggcggg  aaagcgctgg  agagaagggg  gcacctggat  aaccacccat     60
cttgaaggag  acctccctgc  cctgcctctg  ttgtccccca  gagcactgcc  tgatcatcct    120
ctgttcccca  tcctcccagc  ccttcctgct  gtacctgtgg  ggagctgatc  tcctcagtcc    180
ccctgctttt  ccccggtctg  ccatcaccac  cccaccacca  tgcacccct  tcctggctac    240
tggtcctgtt  actgtctact  cctgctattc  tccttgggag  tccaggggtc  cctggggggct    300
cccagcgctg  ccccagagca  agtccatctg  tcttacccag  gtgagccagg  ctccatgact    360
gtaacttgga  ccacatgggt  cccaacccgc  tctgaagtgc  aattcgggtt  gcagccgtcg    420
gggcccctgc  ccctccgcgc  ccagggcacc  ttcgtcccct  ttgtggacgg  nggcattctc    480
cggcggaagc  tctacataca  ccgagtcacg  cttc                                  514
```

```
      <210>  788
      <211>  469
      <212>  DNA
      <213>  Homo sapiens


      <400>  788
cccgtaattc  tcgggtcgac  gatttcgtgg  cgcggaggag  ctctgtccgg  aatcacatag     60
ataccatcgt  ggaaacagca  gcgcaggtca  cggcgccgcg  ggccctgcac  cagacgctgg    120
gctctagaga  ttatttctct  ttattcagaa  gcatacagtt  gtttgctgat  tgcaagaaga    180
tgtttctgtg  gctgtttctg  attttgtcag  ccctgatttc  ttcgacaaat  gcagattctg    240
acatatcggt  ggaaatttgc  aatgtgtgtt  cctgcgtgtc  agttgagaat  gtgctctatg    300
```

486

```
tcaactgtga gaaggtttca gtctacagac caaatcagct gaaaccacct tggtctaatt      360
tttatcacct caatttccaa aataattttt taaatattct gtatccaaat acattcttga      420
atttttcaca tgcagtctcc ctgcatctgg ggaataataa actgcagat                  469
```

```
        <210> 789
        <211> 525
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 789
ggacttctcg ggtcgacgat ttcgtgcccc ctcggatgaa tgggaccgaa gctgactgcg       60
aactacagct tcttggcagc gtcggtgttg gccgcgggag aaggggagac cgcggcggcc      120
cccagtgaga gcggctttcc aggacggtgc gatgtgctgc gcagcgaaga ggcaggaggc      180
cggcttcctg gggtagcggt acaggcgggc gcttactctg tgcgcttgct tccccaaccc      240
tgcaccggcc atgcgcccgg ccttggcggt gggcctggtg ttcgcaggct gctgcagtaa      300
cgtgatcttc ctagagctcc tggcccggaa gcatccagga tgtgggaaca ttgtgacatt      360
tgcacaattt ttatttattg ctgtggaagg cttcctcttt gaagctgatt tgggaaggaa      420
gccaccagct atcccaataa ggtactatgc cataatggtg accatgttct tcaccgtgag      480
cgtggtgaac aactatgccc tgaatctcaa cattgccatg cccct                     525
```

```
        <210> 790
        <211> 377
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 790
ggaccccatg tcaaaaatac aaaagatatg ttgaagtccc aactcctgat aactcaaatg       60
tgactgtgtt gggaacatct ggagtcctta cagagataat caagttaaaa tgaggtcatt      120
agtgtgggtc ctaatccaac aactgacgcc cttatacaaa ggagaaacct ggacacagac      180
atgcacagaa gaccatgtga ccatgaaggc agagatcaga gtgatgcttc tagaagccag      240
ggaagattgc cagttaatga ccaaaagaag ccaggagaca ggcctgcaac ggattctgcc      300
tgaaggctcc cagaaggaac caaccctgac aacaccttga tcttggactt ccaacctcca      360
gagctgggag gcgacac                                                    377
```

```
        <210> 791
        <211> 637
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 791
ataaacttgt tttaaattgg cttattgctg gtctctcaag gcttcctatt tttgtttgct       60
ttagtctctc taaaatttca gggaaaaact atgagtctca aaatgcttat aagcaggaac      120
aagctgattt tactactagg aatagtcttt tttgaacgag gtaaatctgc aactctttcg      180
ctccccaaag ctcccagttg tgggcagagt ctggttaagg tacagccttg gaattatttt      240
aacattttca gtcgcattct tggaggaagc caagtggaga agggttccta tccctggcag      300
gtatctctga aacaaaggca gaagcatatt tgtggaggaa gcatcgtctc accacagtgg      360
gtgatcacgg cggctcactg cattgcaaac agaaacattg tgtctacttt gaatgttact      420
gctggagagt atgacttaag ccagacagac ccaggagagc aaactctcac tattgaaact      480
gtcatcatac atccacattt ctccaccaag aaaccaatgg actatgatat tgcccttttg      540
aagatggctg gagccttcca atttggccac tttgtggggc ccatatgtct tccagagctg      600
```

```
cgggagcaat ttgaggctgg ttttatttgt acaactg                               637
```

```
        <210> 792
        <211> 881
        <212> DNA
        <213> Homo sapiens


        <400> 792
agggtatata gagaaaagga tctcatgtat tgctctactt ttttcttcta gatacctgtt        60
aacttcttac gctttcatga tacatttatc tagttctgtt attcaagtta aagtattata       120
cagttaagtc tatggcagag tcagattctt ttatgtgtct aactgttgcg aagtatagac       180
ttcttatatc ttatatggtg accattaaca tataacgagc atgctagcat attgttgtct       240
ttgagagcac cgtatcaact ttttgatctg tagaatgaca gaagccacat tcgatactct       300
gcgactctgg ttaataatcc tgctgtgtgc tttgcggttg gccatgatgc gtagtcacct       360
gcaagcttat ttaaatttag cccaaaaatg tgtggatcag atgaagaaag aagcgggggcg       420
aataagcacg gttgagctac agaaaatggt ggctcgagtc ttttattatc tttgtgtcat       480
tgcactgcag tatgtggcgc ctctggtaat gctgcttcac acaactctgc ttttgaaaac       540
actaggtaat cattcctggg gtatttatcc agaatctatc tctaccttac cagtggataa       600
tagtctactg tccaattctg tttactctga attaccatca gctgaaggga aaatgaagca       660
taatgcaagg caaggtccag ccgttccacc cggcatgcaa gcttatggag cagccccctt       720
tgaagatctc cagctagact tcacagagat gccaaagtgt ggagatctta ttcctagatt       780
tggactgccc ttacggatcg gctcagataa tgggctggcg tttgtggctg acttggtaca       840
gaagacggca aagtggaaag gaccccagat tgtcgttctg c                          881
```

```
        <210> 793
        <211> 622
        <212> DNA
        <213> Homo sapiens


        <400> 793
atgagttttc cgcttcatca tctgcttctg ttttctccat cttagtttgc ccaaagcttg        60
ctggccgctg tgtagggctg gtgagtggct ggggctgtct gagccatgaa caacttcagg       120
gccaccatcc tcttctgggc agcggcagca tgggctaaat caggcaagcc ttcgggagtc       180
atggacgaag ttggagttca aaaatgcaag aatgccttga aactacctgt cctggaagtc       240
ctacctggag ggggctggga caatctgcgg aatgtggaca tgggacgagt tatggaattg       300
acttactcca actgcaggac aacagaggat ggacagtata tcatccctga tgaaatcttc       360
accattcccc agaaacagag caacctggag atgaactcag aaatcctgga atcctgggca       420
aattaccaga gtagcacctc ctactccatc aacacagaac tctctctttt ttccaaagtc       480
aatggcaagt tttccactga gttccagagg atgaagaccc tccaagtgaa ggaccaagct       540
ataactaccc gagttcaggt aagaaacctc gtctacacag tcaaaatcaa cccaacttta       600
gagctaagct caggttttag ga                                               622
```

```
        <210> 794
        <211> 1177
        <212> DNA
        <213> Homo sapiens


        <400> 794
tttcgtcttg gcatagcctg ctagaggggt gcagctgcat ctcctgcctc tggcattccc        60
gcagcagatg cacatggccc tgcactgaga agcgcccagc tcactgcacc tgcactcagg       120
```

```
aattgtagga ctccctctag gagttgggca catgtcgttg gtgggagccc tgtccctgcc      180
ttgagaaagc tgtaggtgtt ctgtgtccag ctgtgcacct gtcctttgtt tttgtgagtc      240
ttcttggatg cacctgaatc ctgcattcag gaggcctatc ccttgttctc tgctagcaac      300
cctgcctgct atctctcttc cggtgccctc tcagccatca gaccagagct tgcttcttcc      360
ctgcttgggc agggaagtgc caggtaaagg gtggtctcct ttagccacaa ggggtggctg      420
accttatgac ctcccgcctc tgagcagaaa ggtgacaggc tgcttttggt taccctcagg      480
gcccagcaga gtccctgag aggcagcctc tgttgggagc aggtggcaca actttgttta      540
gctctacaag gcaggaggag tttaatagta cttctcatta gcactgaaat ttgtttccaa      600
agcacttgtg tgtacaatat ttaatttaga tcttctcagt gggcctgtgg gttagaatag      660
catgtgggat tgatgggttc atcattttac atctaaggaa aatgagcctt cggttgggac      720
ctgcctggag gcacttaaca tgccttggga ctaaacactc caaggcaaac tctgttctgg      780
caagccaaca tgccgggttc tttgtggctc aagggcgatg ggcgattcac agggccttct      840
cgagcaggac ttctcccaca cctcctcgtg ggcccctgct gctgcctggc agacacccgc      900
tcctttcccg acgacgagct caggcgatcc ggtcctcgac gcggccgtcg ttgccggcgc      960
acctctttaa acctgctcct gcgatcgcgc tcatagtctc tccgctccgc ttcccccgcc      1020
gtacttcacc gtgtcacctc agcggtcctc ccgcgccccc gtgccgtact ctccacacgc      1080
ttctccggcc ggtctgcgtc gtccgccgca cgccgcctgt cttcttcacc tcattcactc      1140
ctgcccgagc tgcggtggcg tcacatccaa caccccg                               1177
```

```
        <210> 795
        <211> 599
        <212> DNA
        <213> Homo sapiens


        <400> 795
    tgtggtggaa ttcgattgcg gcccccatct gtctgacttt tcctcgtgtg acccatcttt       60
    tcaaattccc ttacctgagg aaggagcccg attacaagga tatttacctg ctcccacccg      120
    gatctaggct ctctgtttcc tcgagtcact cccagattag tggtgtctag ctcagcactg      180
    tttctgttat acttcattca taattcccag cgctgttgga cgaggatggg aagaccgcct      240
    gtggccatga gccctccccg gtgctcctgg ggctaaggct ggggctgcag ccatggggct      300
    gggtcagccc caggcctggt tgctgggtct gcccacagct gtggtctatg gctccctggc      360
    tctcttcacc accatcctgc acaatgtctt cctgctctac tatgtggaca cctttgtctc      420
    agtgtacaag atcaacaaaa tggccttctg ggtcggagag acagtgtttc tcctctggaa      480
    cagcctcaat gaccccctct tcggttggct cagtgaccgg cagttcctca gctcccagcc      540
    ccggtcaggc gccgggctct cctcaagggc tgtggtgctg cccgggtgc aggccctga      599
```

```
        <210> 796
        <211> 709
        <212> DNA
        <213> Homo sapiens


        <400> 796
    tttcatgtgt ctctggattc caggctgcca ttggccctcc actatgtgtc ccagtgctgg       60
    cattctgccc tattctgacg taggccatct atcagatggc tgactcagtc ttaactttgg      120
    tgttcaccag ctgcctgctt tcagagctgt ctctggtttg ctctgatttt aggccaaccc      180
    ccatctcata ccagagcagg tacggctctg gggatggctg gatcaggtgc aagtctgaag      240
    tgagagaaac ccagtgaagg tcaacattgt ctacagtgac ttagaatgca acttacaata      300
    ccatcaccaa taacatcctc ttgcattcag tactttgcaa tttacaaagc acatttatgc      360
    tcactatctc atttgctcct ccaacaattt tggaaggtag acttaagtag ctctgtttag      420
    gctgggcaca agggctcaca cctgtaatcc cagcactgtg ggaggctgag gcaagcggat      480
    cacgagatca aaagatcgag accatccttg ctaacacggt gaaaccccat ctctactaaa      540
    aatacaaaaa attaaccaag cgtgctggcg gcgcctgta gtcccagcta cttcggaagc      600
    cgagcaagaa aatgacgtga acccgggaag tggagcttgc agtgagccct aatcgcacca      660
```

```
ctgcacttca gcctgggcga cagagggaga ctccatttca aaaaaaaaa                709
```

```
        <210> 797
        <211> 389
        <212> DNA
        <213> Homo sapiens


        <400> 797
cgagcggaga ggagatgcac acggcactcg agtgtgagga aaaatagaaa tgaaggtaca      60
tatgcacaca aaattttgcc tcatttgttt gctgacattt atttttcatc attgcaacca     120
ttgccatgaa gaacatgacc atggccctga agcgcttcac agacagcatc gtggaatgac     180
agaattggag ccaagcaaat tttcaaagca agctgctgaa aatgaaaaaa aatactatat     240
tgaaaaactt tttgagcgtt atggtgaaaa tggaagatta tccttttttg gtttggagaa     300
acttttaaca aacttgggcc ttggagagag aaaagtagtt gagattaatc atgaggatct     360
tggccacgat catgtttctc atttaaata                                       389
```

```
        <210> 798
        <211> 480
        <212> DNA
        <213> Homo sapiens


        <400> 798
ccctcctgca taggctcgag acatgtagct cagcttgccc gttacctgaa ·cagcgggcgc     60
agtcgggccc ctgaacggtc accatgtggg ccttttcgga attgaccatg cagtccatga     120
tcaatatgat tgtctccctg ctggggttag tggccacagt caccctcatc ccggccttcc     180
ggggccattt cattgctgcg cgcctcggtg gtcagtccct cggcaaaacc agccgtcagc     240
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gggcaggggc gggaaccggg gtgcttgacc acacgtgaag actcagaact aacccaggca     360
gcctggaact cggagaggtg atgagcagaa cttactcgca ttggggaaag gatgggtagg     420
gaccctaggg tatatctggg actctggcag tggtgctttc ctccctccgc cccttgtatt     480
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        <210> 799
        <211> 639
        <212> DNA
        <213> Homo sapiens


        <400> 799
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gaatgaatac ctccgaagcc gttttgttct ccaaatggga atagctccac tataccagcc     120
tcgtcttcct tccgggggac aacgtgggtc agggcacaga gagatattta atgtcaccct     180
cttggggctt tcatgggact ccctctgcca cattttttgg aggttgggaa agttgctaga     240
ggcttcagaa ctccagccta atggatccca aactcgggag aatggctgcg tccctgctgg     300
ctgtgctgct gctgctgctg ctggagcgcg gcatgttctc ctcaccctcc ccgcccccgg     360
cgctgttaga gaaagtcttc cagtacattg acctccatca ggatgaattt gtgcagacgc     420
tgaaggagtg ggtggccatc gagagcgact ctgtccagcc tgtgcctcgc ttcagacaag     480
agctcttcag aatgatggcc gtggctgcgg acacgctgca gcgcctgggg gcccgtgtgg     540
cctcggtgga catgggtcct cagcagctgc ccgatggtca gagtcttcca atacctcccg     600
tcatcctggc cgaactgggg agcgatccca cgaaaggct                            639
```

```
        <210> 800
        <211> 412
        <212> DNA
        <213> Homo sapiens


        <400> 800
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gcgctgtgcg gctgctggtt ccgcctgggc ggggcccgcc cgctcatccc gttgggcccg     120
actgtggtac agacctccat gagccgatcc catgtagccc tgctgggcct gagtctgctg     180
ctcatgctcc tactgtatgc ggggctgcca agccccctg agcaaacttc ctgcctctgg      240
ggagacccca atgtcacagt cctggctgtc tccaccctg ccaactcgcc catgttctac      300
ctggaggggt taccactcca ccttgcccac agggtggacg tgatccctct gtcctctcta     360
ggccctcttg tatctcctct ccgttgtcaa gcattgcccc ctcgcctctc cc            412



        <210> 801
        <211> 423
        <212> DNA
        <213> Homo sapiens


        <400> 801
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cctcgaagtc tatgggctcc tgctgccgc cgtgggtgct gctgccttcc tctctgtccg       120
cgtgctggcc actgcccacc gccagctgca ggacatctgc cggctggagc gggcagtgtg     180
ccgcgatgag ccctccgccc tggcccgggc ccttacctgg aggcaggcaa gggcacaggc     240
tggagccatg ctgctcttcg ggctgtgctg ggggccctac gtggccacac tgctcctctc     300
agtcctggcc tatgagcagc gcccgccact ggggcctggg acactgttgt ccctcctctc     360
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cac                                                                    423



        <210> 802
        <211> 524
        <212> DNA
        <213> Homo sapiens


        <400> 802
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agaaggctga agctagcaga ggccattcag aggttgaaga agccgtctct gtaacataaa     180
agtgcaaggt gagggagaaa gtgctgatga agatgttgca gcaagttact cagaagacct     240
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agccttctac tggaagagtc caaaacttca aagacaggc tgactctctt gttaggggct      360
aatgcgaggg gtgacattta agttgaagcc agtgctcctt taccattctg aaaatcctag     420
gccacttaag aattatgctt gggctaactc cctgtgctct agaaatggaa caaagcctag     480
atgacagcat ggtttacaga atggcttgtg aatatttaag ccca                      524



        <210> 803
        <211> 475
        <212> DNA
        <213> Homo sapiens
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<400> 803
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aagtcaccgt caaggtgtat tttgacctac gaattggaga tgaagatgta cgccgggaga     180
tctttggtct cttcggaaag actgctccaa aaacagagga taattttgtg gccttagcta     240
ccggacagaa aggatttggc tacaaaaaca gctgattcca tcgtgtaatc aaggacttca     300
tgatccaggg cggagacttt accaggggag atggcacagg aggaaagagc atgtacggcg     360
agcgcttccc ctatgagaac ttctgactga aacactactg gcctggctgg gtgagcatgg     420
cctacgcagg ctaagacacc aacggctccc agttcttcat cacgacagtc aagag         475
```

<210> 804
<211> 404
<212> DNA
<213> Homo sapiens

<400> 804
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cgccgatggc tgcggggtct cgcgccgtcg caccgtcccc acgcggcaag cgaccttcgg      60
gctcagggcg gcggcggctg caacgaggat taggagggcg gcgcggaagc caagaatagt     120
gtcgtcagca gcagccattt ggtcccagga ggaaaagagg ctgtggcagc gacgccgacg     180
tcctgcgcgt accccctctc cgcggcaccc accgggcccc ctcctcctcc tcttcggcgg     240
cggcagcgtc caccatcttc ctcttgctgc cagtggtagc gctcgtctgg cggagctggt     300
tgttggtctt gacgatatta tggatgaagg agttgttaaa gaaagtggca atgataccat     360
tgatgaagaa gaactgattt tacctaacag gaacttaagg gacg                     404
```

<210> 805
<211> 344
<212> DNA
<213> Homo sapiens

<400> 805
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tttttttttt aacaaggaac tgagtatatg tatatttcat caggggaggg gctaggactc      60
ccacttggag gcctcaggag ttctgctggg cgtcgcgaag gagcttctcc tcccgccgct     120
tccgtaacct ctctttgaat tcctctatct cttgaagctt ctcaggtggc cacagctccc     180
tcttgcgctg tatgacatcg tcctcaaacc actcggcctg attggaaacc cagaacatag     240
ccacagggaa agtgaggtag attatcatcc gaaatatctc cagcttcacc cccatctcgt     300
ttctcccggt caacaaagcc agttccgccc aaagccgacc ctcc                      344
```

<210> 806
<211> 1208
<212> DNA
<213> Homo sapiens

<400> 806
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ggggaacatc tcacattggg acctgtttgg gggtgaggga ctatgaaagg aatagcgtta      60
ggagaaatac ctaatgtaaa tgatgagttg atgggagcag caaaccaaca tggcacatgt     120
atacctgtgt aacaaacctg cacgttctgc acatgtaccc tagaacttaa agtataataa     180
aaaaattgaa tgttacatac tataatttct gaccaaaaag gattaaaact agcaatcgat     240
aacataagaa aattcataca attcacaaat atgtaaaaat taagcaattt actcttgaac     300
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```
atgcttttgt tcaagagtta gaaaacttaa tattttgaac atgtctataa tgccaaaagt    360
gacctacaga tttaatacaa tccctataaa attcttaatt ttatttttga cagatacaga    420
aaatgtgact cccaaaagta tatggaattt caggagacca caaagaactc tacagttttc    480
aaaaagagaa aaattttgga aacattacaa ttcctgtttt caaaacctgt tacaaatcta    540
cagtaatcta agtagtttgt tactggcata aagacagaca aatagactaa taaaaccgag    600
tgcaaaaaag atgtaaacgc tcacatattt attgtagctt tacttacaaa aatcaatagg    660
ttaaagcaat ccatacttcc ctcaacaaac aaatgaatgg gtacaatttg gaatataaaa    720
acaatagaat attacccagc ttttgaaaag cagaaaacct tttatctata ataaaaataa    780
aatcttgatg acattatgct aaataaaaaa agccagctac aagacagata ctgagtgtat    840
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gttttcgtaa gattaaaaat gttctagaga tacgtccgaa taatggtcca tggtgctgga   1020
aaggtctaaa ctatataatt attgccattg caaattattg taaaactgaa aataattgcc   1080
aatttttata tggttcttat aacagtggta cccatgataa tatctaagtg agaaaccggt   1140
ttaatgcatt tcaattaaat atctttcgga acttggccca aaaactggag tctgttcctc   1200
tcggtttg                                                            1208
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```
        <210> 807
        <211> 432
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(432)
        <223> n = a,t,c or g


        <400> 807
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ccaagctggc ctcggcctgc ggtggcatca tctacttcct gagctacgtg ccctacatgt    120
acgtggcgat ccgagaggag gtggcgcatg ataagatcac ggccttcgag aagtgcatcg    180
cgtccctcat gtccacgacg gcctttggtc tgggctctaa gtacttcgcg ctgtatgagg    240
tgcccggcgt gggcatccag tggcacacct tcagccagtc cccggtggag ggggaagatt    300
taaacttgcc ccccccccc cccatgatgc cggcccccgg ngtggtatat ggcatcctca    360
cgaagtaaaa tgaggctgtg cacccaggca tgcccgggct gcccggcgcg cgcgcgggaa    420
ttccgaacgg gt                                                       432
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        <210> 808
        <211> 483
        <212> DNA
        <213> Homo sapiens


        <400> 808
ctctcgcccc ggaattaccg ggtcgacgat ttcgtatggg gtccccgggc atggtgctgg     60
gcctcctggt gcagatctgg gccctgcaag aagcctcaag cctgagcgtg cagcaggggc    120
ccaacttgct gcaggtgagg cagggcagtc aggcgaccct ggtctgccag gtggaccagg    180
ccacagcctg ggaacggctc cgggttaagt ggacaaagga tggggccatc ctgtgtcaac    240
cgtacatcac caacggcagc ctcagcctgg gggtctgcgg gccccaggga cggctctcct    300
ggcaggcacc cagccatctc accctgcagc tggaccctgt gagcctcaac cacagcgggg    360
cgtacgtgtg ctgggcggcc gtagagattc ctgagttgga ggaggctgag ggcaacataa    420
caaggctctt tgtggaccca gatgacccca cacagaacag aaaccggatc gcaagcttcc    480
cag                                                                 483
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<210> 809
<211> 768
<212> DNA
<213> Homo sapiens


<400> 809
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ggatgctgag   ggccctgtg    ctgagggtgg   tggtccccat   cctcctccac   cctgctgccc     180
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gatagggagg   aggtctctgc   ccgccactct   cccgccccct   tttccccaag   ctggggacct     660
cagagaatcc   attctcctcc   tgccctgcag   agagtcacgg   agcacgtcct   ggctttctcc     720
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<210> 810
<211> 473
<212> DNA
<213> Homo sapiens


<400> 810
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gccagcccag   cccctttaca   cacccacacc   tcctcagacc   agactcgaat   tcctgctggg     300
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ttcaaagctg   taaggggagg   taactccagg   actatctcag   gtggaatatg   cacttcgcag     420
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<210> 811
<211> 14139
<212> DNA
<213> Homo sapiens


<400> 811
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cgccatgccg   tccgcgggcc   ccgcctgagc   tgcggtctcc   gcgcgcgggc   gggcctgggg     180
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gctggccctg   ggcctgggcc   tgtggctcgg   ggcgctggcg   ggggcccccg   ggcgcggctg     300
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495

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cggggatggc tcctccaaca cgaccgtgcg ggggtgcccg acggtgacac acaacttcac    4260
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<400> 816
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tgtcagaaga acacagaagc cacctgctgg gagttctatc tttttagaga tgagctgttt     540
ggggtttaga aatgagatgg aaggaagtgg aaggcagagg gcaagggcgg agttgtgaga     600
ggctaccagc acaaggatgg aggctggggg ccatgtgcag tagggccaga aaagtgttca     660
gtggaattgt gggtaggagg ctgagatgct gctgggccct gtccccacca aagatggaag     720
aactgaggtg gaggcaactg gccacttgcc taggagagaa ctcaggcacc aagttaaaaa     780
gactcccatg aagaactgcc accttctacc cgctgcagtc ttggatggtc tacccatgca     840
gaaatcagtg gccaggaagg cagggcctac tgctgggata tcagggcaag tgcccagtcc     900
aagaaagcca ctgtaatgtc ctgtaggcaa agccaggtcc agtggacagc ctcactgagc     960
tgtgtcttca tgcagtccca ggtcacctca cctctgcatg cctcatggca gtgctcctgg    1020
gcccaggcca gggcctcaag caagaggtgc cacagtggca gcagcacatt ctggtggaaa    1080
agcaggggca gctctctcag atagcggagt agctgattca cggaatcggg gagctggatc    1140
tgtagcctct gagagagact ggtgagactg tcaccaaacc acgcaaggtg agaggcacag    1200
tgggcagaaa ggaagctgac tgtggcattg gtgtgagccc aggccagctg caagctgggc    1260
cgcaccacgg tgagcaggtg ggagccccag agcggcagtg tctcccccag ccagctgtag    1320
ccttgcagac tgtaggagta gagcttggca cacgcttgtt ggctagcagg taagaagcca    1380
gatgatcgaa gcaaccggcc agtaagggag gcctggaagg agctgtgtga ccggaggtca    1440
tggcacagga agcctacagc gaagaccagc agcaacagga ggagccgcgt ccagggcagc    1500
cgaggaccct gaacctgctg caacaggccc ttgcaggcca tgtcacaggt gacgacatcc    1560
tggttgttac tgctaccctt cctcagcagc tcctgattgg taagcttgag ggactgaatg    1620
gtttcttgca aagacttctg taccttcttg ggaatctgct cccaggagct gagcaagtgc    1680
```

```
tccagcagaa ggctggactg tgacaggtgc ttagggtaca gctgcctcca gacgctggca    1740
ctgagggggt ccaccgtcag gcactcagtc aggctgctca ggagctgaat gtgctctctc    1800
ttgggatcca tcttctgagg gtgaagctcg agtgagcggg gcaggcagct gtcaacaggg    1860
agctctttct tcatctcagg gggacagcta gg                                  1892
```

```
        <210> 817
        <211> 687
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 817
gtgtggtgga attcctggag ccgggatagg gctgcggtgg gaccaaagcc tgtgagagac     60
ttcccagctg tctggcttgt ggactgagca atctgcggcc cggtctcgag gggaaaatag    120
gtctgtggtc cgcaaggccc cagtggagcc cttgggttcc cgcagaaccg actgggtctc    180
cagtagtctc tgaggagccg ctcgaccttc tcccgaccct ggatctgagg caggagatgc    240
ctcccccgcg ggtgttcaag agctttctga gcctgctctt ccaggggctg agcgtgttgt    300
tatccctggc aggagacgtg ctggtcagca tgtacaggga ggtctgttcc atccgcttcc    360
tgttcacggc tgtgtcgctg ctgagcctct ttctgtcagc attctggctg gggcttctgt    420
acctggtctc tcctttggag aatgaaccta aggagatgct gactctaagt gagtaccacg    480
agcgcgcgcg ctcccagggg cagcagctgc tgcaatttca ggccgagctg gataaactcc    540
acaaggaggc gtcccttgtt tgcggctgcc cctccctgag agaggtgcca agctccgccg    600
tctcaaggct ggaaccacct tctatcgcgc aaccccttct ctctcgtctc cagctttatt    660
tatccgaccc ctcatcatat ctcgtcc                                        687
```

```
        <210> 818
        <211> 372
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 818
cgctgagatg tatacctggc aggtgggcaa taattagacg agaataaaag acacttgcat     60
cattgccaga agtgtgtaaa cttctttttg cttcttttcc tggaggaata gaagagagag    120
acagtcccca atgtgtggag aatttctctt catcagcata tatagctgtg atatgtaaag    180
gagcatcaaa ggtctcataa gtttcatcgt cgttaaaata tacaaaaagg gctgtcaatg    240
cttgagacat cagaattaac atacactctc tcttcgtaac agtccacggt tgctacctat    300
taaccgtccc cggttaatac cttttatcca tagccggcca ccacctcata cccatccct    360
gtgccctgta tt                                                        372
```

```
        <210> 819
        <211> 445
        <212> DNA
        <213> Homo sapiens
```

```
        <220>
        <221> misc_feature
        <222> (1)...(445)
        <223> n = a,t,c or g
```

```
        <400> 819
gtcagcttcg gaanttccgg gnagactcac cgcgacggga cttggtgggt tcttggtctc     60
```

```
actgagttct agtttgaagc tgtttaccct cgcagctctc tgactggcac ccctgcctgc      120
ctgcccggcc ctgcacaaca tgcagccctc cggcctcgag ggtcccggca cgtttggtcg      180
gtggcctctg ctgagtctgc tgctcctgct gctgctgctc cagcctgtaa cctgtgccta      240
caccacgcca ggccccccca gagccctcac cacgctgggc gcccccagag cccacaccat      300
gccgggcacc tacgctccct cgaccacact cagtagtccc agcacccaag gcctgcaaga      360
gcaggcacgg gccctgatgc gggacttccc gctcgtggac ggccacaacg acctgcccct      420
ggttctaagg caggtttacc acaat                                            445
```

```
        <210> 820
        <211> 425
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(425)
        <223> n = a,t,c or g


        <400> 820
gtcctaatta gaattatgct gggcctaacc atgaccaata cgtggccata ggtggtaccg      60
gtgcgagagc gagatcagct cacttaccca ctcagactac gatccgaaag cataaccagt      120
tcagtctact ggtgccggga agactggcca aatcaggaaa tgaggaagat ctacaccact      180
gtgctgtttg ccaacatcta cctggctccc ctctccctca ttgtcatcat gtatggaagg      240
attggaattt cactcttcag ggctgcagtt cctcacacag gcaggaagaa ccaagagcag      300
tggcacgtgg tgtccaggaa gaagcagaag atcattaaga tgctcctgat tgtggccctg      360
cttttttattc tctcatggct gcccctgtgg actctaatga tgctctcaga ctacgctaaa      420
ccgan                                                                  425
```

```
        <210> 821
        <211> 706
        <212> DNA
        <213> Homo sapiens


        <400> 821
ggattgagtg agcccaggag gtctaggctg cagtgagctg tgatcacacc tctgcactcc      60
agcctgggtg acagagaaag atcctgtccc aaataactaa gtaaataaga tggcctgaac      120
acttgcaccc ctaaacctgc tctgtcccag tgtgcccect cgaaaatggt ctgggttctg      180
tatgtaactg ggcctctctc ctgcagagat cctctcagac tccgaggagg accgggtatc      240
ttctaatacc aacagctatg actacggtga tgagtaccgg ccgctgttct ctaccaggga      300
gaccacggct cagatcctgg tccgggccct caatccctg gattacatga agtggagaag      360
gaaatcagca tactggaaag ccctcaaggt gttcaagctg cctgtggagt tcctgctgct      420
cctcacagtc cccgtcgtgg accggacaa ggatgaccag aactggaaac ggccctcaa      480
ctgtctgcat ctggttatca gccccctggt tgtggtcctg accctgcagt cggggaccta      540
tggtgtctat gagataggcg gcctcgttcc cgtctgggtc gtggtggtga tcgcaggcac      600
agccttggct tcagtgacct tttttgccac atctgacagc cagcccccca ggcttcactg      660
gctctttgct ttcctgggct ttctgaccag cgccctgtgg atcaac                     706
```

```
        <210> 822
        <211> 357
        <212> DNA
        <213> Homo sapiens
```

```
     <400> 822
cggacgcggg ggcggacgct gggccttgct ccttcctcat tgggatcatc agtcagtgaa      60
ttggaaggaa atgggccatg ctggtcaaca atgttctggc ggggctgggg ggcaccctta     120
tgggcctggc caacgttgct gactcctata aaatgctcat ccttgtacga ttcctttttt     180
tcgcctactg acgcgctggg cttggagtcc cttctgggaa ctgccagcct gtggccactg     240
ctcctgagcc tcacagagct acctgccctc ctgcaaatgt gactgctgac cttctgttcc     300
gaaagacccc gctacctcta cgtaatacat aatttcgagg gacctgccag aattagt        357
```

```
     <210> 823
     <211> 402
     <212> DNA
     <213> Homo sapiens
```

```
     <400> 823
cgggtcgacc cacgcgtccg atccgagcta atcagtcaat acaagtcaca tgggtttatg      60
gatatgctcc atgacaagtg gtacagggtg gttccctgtg gcaagagaag ttttgctgtc     120
acggagactt tgcaaatggg catcaaacac ttctctgggc tctttgtgct gctgtgcatt     180
ggatttggtc tgtccatttt gaccaccatt ggtgagcaca tagtatacag gctgctgcta     240
ccacgaatca aaaacaaatc caagctgcaa tactggctcc acaccagcca gagattacac     300
agagcaataa atacatcatt tatagaggaa aagcagcagc atttcaagac caaacgtgtg     360
gaaaagaggt ctaatgtggg accccgtcag cttaccgtat gg                        402
```

```
     <210> 824
     <211> 348
     <212> DNA
     <213> Homo sapiens
```

```
     <220>
     <221> misc_feature
     <222> (1)...(348)
     <223> n = a,t,c or g
```

```
     <400> 824
ggcacgagag aggctatgag tacaatcagg acctgatccg caagggtcag gccaacaagg      60
tgaagaaact ctccatcgtt gtctccctgg ggacagggag gnccccacaa gtgcctgtga     120
cctgtgtgga tgtgatatct agcagcatca ccggttactt acgttcgtat gttttttggtg    180
tcaattatat gtgttactct cttctttcct attgtagctc tcttcgatct ttacgccact     240
ctcgctcact gtgtgtacgc gttttctact gactctcttc tgcctgctgt gatgcttact     300
gcgcttcctc gtagtctctt cttttcgtcg tcgttgattt tatcatcg                  348
```

```
     <210> 825
     <211> 347
     <212> DNA
     <213> Homo sapiens
```

```
     <400> 825
ggcacgagcc ggtgggtcta cagcggaagg gagggagcga aggtaggagg cagggcttgc      60
ctcactggcc accctcccaa ccccaagagc ccagccccat ggtccccgcc gccggcgcgc     120
```

```
tgctgtgggt cctgctgctg aatctgggtc cccgggcggc gggggcccaa ggcctgaccc    180
agactccgac cgaaatgcag cgggtcatgt tacgctttgg ctgctctgtc atctgttgct    240
attgtatctc agttcgtact ggtcggtccc gggaaactgg atagtctgga gcagtcgatt    300
atgtactcgg catctctttg agttgatgga gtatcgatgt gtggttg                 347
```

```
        <210> 826
        <211> 649
        <212> DNA
        <213> Homo sapiens


        <400> 826
ggcacgagca cctctttgag ttccccagga agaacccatt tgcactaaaa acattattga     60
gcaaagtaga tgttactaaa gattttgaag ggatgtgtag tctttcatca cctaccttgc    120
agcactcaag tttacaaacc ctcattgggc atgtgggggt tcctgagtcc cctgtgggaa    180
gtggtttttt gccatacacc ttgtttcaga gctcagcctc agttagacag ggcaggctcc    240
agtttcctca tctacccctc tccccacagc acctctaatt aaccagccct tttcttacca    300
ctgagaaatt gaactctact aaataattac agccttgtgc cacataatga cgttttggtt    360
aacaggggac cgtgtgtata atggtggtct cataagaata taataccatg ggtttactat    420
acttttctat atttagaaat gtttagattt aagttagata tggttagatt taaaatacgt    480
aacacaggct ggacccggta gctcatgcct ggaatcccag cactttggga agccgagttg    540
ggtggatcac ctgagggcag gagtttggaa ccaccctggc caacttgggg gacccccattc    600
ttctaaaaaa cacacattac ctggggggggg gcgagccctt tatcctacc                649
```

```
        <210> 827
        <211> 791
        <212> DNA
        <213> Homo sapiens


        <400> 827
ggcacgagac tgttcactac ctcctctacc tggccatggc cggcgccatc tgcagaagga     60
agagataccg gaattttgga ctctactggc tgggttcctt cgccatgagc atcctggtgt    120
tccttacagg aaacattctt ggcaaataca gctccgagat caggcctgcc ttcttcctca    180
ccatcccta cctgctggtg ccatgctggg ctggcatgaa ggtcttcagc cagccccggg    240
cgctaacccg ctgcaccgcc aacatggtgc aagaggaaca aagaaaggga ctcctgcagc    300
gtccggctga cctggcccctt gtcatatatc tcatccttgc tggcttcttc actctgttcc    360
ggggcctggt ggtgcttgat tgccccacag atgcctgctt tgtctatatc taccagtatg    420
agccatacct gcgggaccct gtggcctacc ctaaggtgca gatgctgatg tacatgtttt    480
atgtcctgcc tttctgcggc ctggctgcct atgctctcac cttccctggt tgctcctggc    540
ttccagactg ggccttggtg tttgctggag catcggcca ggcacagttc tcgcacatgg    600
gggcttccat gcacctgcgc acaccctcca cctaccgtgt gcctgaggac acctgggggct    660
gcttcttcgt gtgcaatctg ctgtatgcgc tgggccccca cctgctggcc taccgttgcc    720
ttcagtggcc cgcattcttc caccagccac caccctccga ccccctagcc ctccacaaga    780
agcagcattg a                                                         791
```

```
        <210> 828
        <211> 348
        <212> DNA
        <213> Homo sapiens


        <400> 828
```

```
aaaggaccat ttgcagaatt cagaaaaatt cttcagtttc ttttggctta ttccatgtcc      60
tttaaaaact tgagtatgct tttgcttctg acttggccct acatccttct gggatttctg     120
ttttgtgctt ttgtagtagt taatggtgga attgttattg gcgatcggag tagtcatgaa     180
gcctgtcttc attttcctca actattctac ttttttttcat ttactctctt ttttttcctttt   240
cctcatctcc tgtctcctag caaaattaag acttttcttt ccttagtttg gaaacgtaga     300
attctgtttt ttgtggttac cttagtctct gtgtttttag tttggaat                  348
```

```
        <210> 829
        <211> 638
        <212> DNA
        <213> Homo sapiens


        <400> 829
cccacgcgtc cgccccaagc tggtcatgga actgatgccc atcggtctgc gggggctgat      60
gatcgcagtg atgctggcgg cgctcatgtc gtcgctgacc tccatcttca acagcagcag     120
caccctcttc actatggaca tctggaggcg gctgcgtccc cgctccggcg agcgggagct     180
cctgctggtg ggacggctgg tcatagtggc actcatcggc gtgagtgtgg cctggatccc     240
cgtcctgcag gactccaaca gcgggcaact cttcatctac atgcagtcag tgaccagctc     300
cctggcccca ccagtgactg cagtctttgt cctgggcgtc ttctggcgac gtgccaacga     360
gcagggggcc ttctgggggcc tgatagcagg gctggtggtg ggggccacga ggctggtcct     420
ggaattcctg aacccagccc caccgtgcgg agagccagac acgcggccag ccgtcctggg     480
gagcatccac tacctgcact tcgctgtcgc cctctttgca ctcagtggtg ctgttgtggt     540
ggctggaagc ctgctgaccc cacccccaca gagtgtccag attgagaacc ttacctggtg     600
gaccctggct caggatgtgc ccttgggaac taaagcag                              638
```

```
        <210> 830
        <211> 428
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(428)
        <223> n = a,t,c or g


        <400> 830
tcgatgaaga ccctgtttgt ggacagctac agtgagatgc ttttcttttct gcagtcactg      60
ttcatgctgg ccaccgtggt gctgtacttc agccacctca aggagtatgt ggcttccatg     120
gtattctccc tggccttggg ctggaccaac atgctctact acacccgcgg tttccagcag     180
atgggcatct atgccgtcat gatagagaag atgatcctga gagacctgtg ccgtttcatg     240
tttgtctaca tcgtcttctt gttcgggttt tccacagcgg tggtgacgct gattgaagac     300
gggaagaatg actccctgcc gtctgagtcc acgtcgcaca ggtggcgggg ttttttctnan     360
acccccctct ntcttctaca taaactgtac tccacctgcc tggaactgtc caactccacc     420
atngattg                                                              428
```

```
        <210> 831
        <211> 892
        <212> DNA
        <213> Homo sapiens
```

505

<400> 831

```
cccggaagct gggaaatgac ttattaacct tcatggcctc tggtcttctg aggaagcagt         60
ctgaggagcc cgagttttga aaagggaagc aatcctccaa ggctgcgatt tccacagaaa        120
tcacatgtga gccacaggtg tcattttaaa atttctagta gcaacagaaa cgaggaataa        180
acagatggtg tttgagtcac tgaattttg gaaggacttc aaatgtcaag cattattctc        240
catgaacagg gtgatgaggg gtctggccat caccaccacc tgcctcctga gcatgctcca        300
ggccatcacc atcagcccta gcatcttgtg gaatcatgct gctgtccagt atgtacacgg        360
tcattctctt gttcaggcat gagaggtgat accagagcct tcgcaacacc agccgctccc        420
caagagcctc cccagagaaa agggccatgc agaccagcct gtgtcttctg gaactggaac        480
acggactacc cacccctatg ttgaggcagc ttctgacagg ccttactgct tacggtcatc        540
ggtcatcagc ccacccgctt gcatctccag ctgcaagtca ctctgggccc agttctcaga        600
caaggccaag tcggccacac caggggctct ctggggagcc tggaggaagg ttgactcttt        660
agtctgctgc atctcagcca ggagttcatc catcttgaag gtctgagggg cacggggata        720
caacgggcca actggggccc ttcatagaat accccaccc tattcttttc cgaacctctc        780
tccaaggctc tgaagactgc ctccgacgtc tgtctctcgc gcccgcgcca cccgtaaacc        840
actacgactc ttcactcatt cctgcaagtc ttcactccct ctactccgat gc               892
```

<210> 832
<211> 312
<212> DNA
<213> Homo sapiens

<400> 832

```
catagaccca tgagatgtac ttgaacggcc tgagaagatt cagtcatgca ttgttgatgg         60
gcgatatgac tgccagactt atgcggtctt tgctggctgc acaacttaca tttgtatata        120
gggtggcgca tctaatgaac gttgctcaac gcataagggg aaatcgtccc attaagaatg        180
agagactact tgcattgctt ggagataatg aaaagatgaa tttgtcagat gtggaactta        240
tcccgttgcc tttagaaccc caagtgaaaa ttagaggaat aattccggaa acagctacac        300
tgtttaaaag tg                                                            312
```

<210> 833
<211> 426
<212> DNA
<213> Homo sapiens

<400> 833

```
gccataattt ctttcttcat tggatttgga ctaagatttg gagcaaaatg gaactttgca         60
aatgcatatg ataatcatgt ttttgtggct ggaagattaa tttactgtct taacataata        120
ttttggtatg tgcgtttgct agattttcta gctgtaaatc aacaggcagg accttatgta        180
atgatgattg gaaaaatggt ggccaatatg ttctacattg tagtgattat ggctcttgta        240
ttacttagtt ttggtgttcc cagaaaggca atactttatc ctcatgaagc accatcttgg        300
actcttgcta aagatatagt ttttcaccca tactggatga tttttggtga agtttatgca        360
tacgaaattg atgtgtgtgc aaatgattct gttatccctc aaatctgtgg tccgtcgacg        420
cggccg                                                                   426
```

<210> 834
<211> 445
<212> DNA
<213> Homo sapiens

```
<400> 834
aagcgcgcta gtagcagctc tggcagaagc aacggtggct tcgagggatg gcggcggctg      60
caacaggacc tgcagcatcc cagaggaact gactaagact ttggaacaga aaccagatga     120
tgcacaatat tatcgtcaaa gagcttattg tcacattctt cttgggaatt actgtggtgc     180
agatgctaat ttcagtgact ggattaaaag gtgtcgaagc tcagaatggc tcggaatctg     240
aggtgtttgt ggggaagtat gagaccctcg tgttttactg gccctcgctg ctgtgccttg     300
ccttcctgct gggccgcttc ctgcatatgt ttgtcaaggc tctgagggtg cacctcggct     360
gggagctcca ggtggaagaa aaatctgtcc tggaagtgca ccagggagag cacgtcaagc     420
agctcctgag gataccccgc cctca                                           445


     <210> 835
     <211> 487
     <212> DNA
     <213> Homo sapiens

     <220>
     <221> misc_feature
     <222> (1)...(487)
     <223> n = a,t,c or g


<400> 835
tttagatgat cccctctgaa aatgatagct gcgaanccnc cnaantnngg gtgacccacg      60
cgtgcgggat acaggcctag gctatggtaa ttgtaagcgg aagtgaaata aatattttat     120
ttgtgtgtgc atttatttaa caaacattaa ttatctcctt gattaataaa gcactgttcc     180
tgccctcaag tagttcatgg tgggctagtc caagaacaat taaatatagt atgactatac     240
atttatgtag taatctaatg tgtcatttct tgcagagaat gggaacaatt ctcctttgcc     300
caaatatgca acctcaccaa aacctaacaa cagttatatg ttcaaaaggg aacctcctga     360
gggctgtgaa agggtcaaag tctttgagga atgctcgtaa gtatcccttc caccatccgc     420
ccnnggngga accccccaat ggggggcaaa caaggnnggg ggggcgcgg tttaaacaac     480
ccacgan                                                              487


     <210> 836
     <211> 611
     <212> DNA
     <213> Homo sapiens


<400> 836
tgatgctgcc tgctgggccc ggggggctgt cttccactac ttcctgctct gtgccttcac      60
ctggatgggc cttgaagcct tccacctcta cctgctcgct gtcagggtct tcaacaccta     120
cttcgggcac tacttcctga agctgagcct ggtgggctgg ggcctgcccg ccctgatggt     180
catcggcact gggagtgcca acagctacgg cctctacacc atccgtgata gggagaaccg     240
cacctctctg gagctatgct ggttccgtga agggacaacc atgtacgccc tctatatcac     300
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ctcatttttt cctgctacag gttcctcagt ggtgtgctga atattgtctt tccatccact     180
accagcacgg gggcgtgata tgcacacagg tccacaagca gactgtggtc cagctcgccc     240
tgcgggtggc ggatgaaatg gatgttaaca ttggtcatga ggttggctac gtgatccctt     300
tcgagaactg ctgtaccaac gaaacaatcc tgaggttggt ttgtggggtt cagtccgctc     360
cctgctgatg attcttggct taggttctac aattctgaag gagcattatt ctggcattct     420
acctgttaag catctatgct gtgcagtagc aactggtctc tgtcatcagc cagccagcaa     480
cagttgcttt cccacact                                                   498


    <210> 840
    <211> 858
    <212> DNA
    <213> Homo sapiens


    <400> 840
ctcgacccgc ctgcaggaat tcggcacgag ccggaatccg cgcgcagccc ggatcgttta      60
aatgagagtt tgcagaagat gaaaggggag tcttgcattc agcaatttgc cctgtattta     120
atgagccagc caccttgtgt cttcccctcc tatgacatag cccttcagct caccctacaa     180
ttgccacatg aaaacttctc tcatgaaacc cacagggtgc aagttctctc ctgttgccct     240
gagtgcccac tcccaggccc tctgtatgag tgacacttca gtctgccatg gaacctggcc     300
ctgctctggc ctggctcctg ctcctgagcc tgctggcgga ttgtctgaaa gctgctcagt     360
cccgagactt cacagtgaaa gacattatct acctccatcc ttcaaccaca ccatatcctg     420
gtggatttaa atgtttcacc tgtgaaaagg cagcagacaa ttatgagtgc aaccgatggg     480
ctccagacat ctactgccct cgagagacca gatactgcta cactcagcac acaatggaag     540
tcacaggaaa cagtatctca gtcaccaaac gctgtgtccc actggaagag tgcttatcca     600
ctggctgcag agactccgag catgaaggcc acaaggtctg ggcaacagag caagtgacca     660
gtactacata gccagctgcc ttctcttcag acatctgcca gtactcatga gcagattctt     720
actcccccgt gaaggctgtc ttttgattgt ctttatgctc tgtgaaaaga cgcttccttt     780
cctgtttact ctaaaagaat acacatttat accagagcat aggacaactg atataaattg     840
tgtaaacaca catgaaga                                                   858


    <210> 841
    <211> 459
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1)...(459)
    <223> n = a,t,c or g


    <400> 841
nagcggttnn nnnnaactga cttcctagca tttngcgngg cattcacaaa agaatatgaa      60
ggaaatgtga cttggaagat caaattgagg aatgcaatac acctttcaag cttgactgta     120
actactctag caaacctcat acccttact ctgagcctaa tatgttttct gctgttaatc      180
tgttctcttt gtaaacatct caagaagatg cggctccata gcaaaggatc tcaagatccc     240
agcaccaagg tccatataaa agctttgcaa actgtgacct ccttcctcat gttatttgcc     300
atttactttc tgtgtataat cacatcaact tggaatctta ggacacagca gagcaaactt     360
gtactcctgc tttgccaaac tgttgcaatc atgtatcctt cattccactc attcatcctg     420
attatgggaa gtaggaagct aaaacagacc tttctttca                            459
```

```
<210> 842
<211> 424
<212> DNA
<213> Homo sapiens


<400> 842
tttcgtccgg aagtgcggat cccagcggcg gccgtgtagc tgagcaggcc tggggcttgg      60
ttctatgtcc ctgtggctat gtttccagtg tcctctgggt gtttccaaga gcaacaagaa     120
acgaataaat ctctgttgaa gagataccat ttgacatttt agagatggct gcatgcaaac     180
tcttaaaaca tttgaatgga ttttccctct tgttgcccag gctgggagtgc aatggtgtga    240
tctcggttca ctgcaacccc ctgcctcccg ggttcaagcg attctcctgc cccagcctcc     300
tgagtagctg ggattagagg catgtgccac catgcccagc taattttgtg tttttagtag     360
agacggggtt tttccttgta ggtcaggctg gccctgaact cctgacctca ggtgatccac     420
ctgc                                                                   424



<210> 843
<211> 697
<212> DNA
<213> Homo sapiens


<400> 843
ggcacgagat ttaatgacat taaaagaaaa ccataaacaa gcctgtgcac agagttccta      60
catgaaaacc aaatgtaaac caaatattac cttcttcaac accatcatct gtttcttcct     120
gactttctc ttctgcatct atatcgattc gctcctctgt actgttccga agaacccagc      180
acaggcggta cagctgaaca gggaccatac aaaagtgcat tagtaatagg caaatgtttg      240
caataatata atagaatggt acctttgttt atcgtctggt gtttttaaaa aatcaaacca     300
tacaggagaa tatagatcac aaagaaaagg cctcctacca cactcactca tcaaaacaca     360
ctaatcattt taaatttttt tctgttttta attctttctg ggtgctattt agaacttcaa     420
atgatatact taaaaatacc tacttctgga tttgtaattt cagcaaagtt gaagatttag     480
ctaacctaca ctataccca gcttcactca ttgtccttaa catccaacag ttattagcca      540
catcatgatt tccttcagtt tatctaatgg ttgctttat aactttcaaa ctatcttctt      600
aaaatctatt tctggaacca tcacatttgg ctgggatcta agtaccaatg gaattccaat     660
tgcaattaag aacccttaac ccacttcctt tttctta                              697



<210> 844
<211> 698
<212> DNA
<213> Homo sapiens


<400> 844
tttcgtgtca cggctgtagt tagggtcaag gtggtagtta ggatcatggc tgtagttagg      60
gtcatggtgg tagttagggt cacggctgta gttagggtca tggtggtagt tagggtcgtg     120
gtggttaggg tcatggtggt agttaggatc acggctgtac ttagggtcat ggtggtagtt     180
aggatcatgg ctgtaattag ggtcatggtg gtagttaggg tcacggctat agttgggggtc    240
atggtggtaa ttagggtcac agcgatagtt agcatcatgg tggtagttag ggtcatggtg     300
gtagttaggg tcatggtggt agctaggccc atggtggtag ttagggtcat ggctgtagtt     360
agagtcatgg cggatagtgc gctcagggct atatgttcgt cgtcgctgaa cgttacgttt     420
tcgcttgaat agtcaagccc tgcctcgtct tttctttttt tcactccaca aagaatcgtc     480
cttactcgaa tgctttttc ccgtgcttaa ggtggcacac catccctggc caacatctct      540
```

513

```
tttggttatg taactcttag tcgtccttgc atacacctcc cccccgcgg ggtgttaccc      600
cccgagttgc gagagcaatt ctaaactagc cgttttagcg tacccccttc actgaacctg      660
ttttcccgac aacctctctt cacggcctgg ggagggcg                             698
```

```
        <210> 845
        <211> 627
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(627)
        <223> n = a,t,c or g


        <400> 845
tttcgtgcag agatgagctg ttttggactt ctcctggggg gcttaactcc aagggttctg       60
agtacagagg aacagctgcc ccctgggttc ccttccatcg acatggggc tcagctgaag       120
gtggtggaga aggcacgcac agccaccatg ctatgtgccg caggcggaaa tccagaccct      180
gagatttctt ggttcaagga cttccttcct gtagaccctg ccacgagcaa cggccgcatc      240
aagcagctgc gttcaggtga gcagagggca ggggtcaaag ggccatgcag acctcagaac      300
aagcgtcttg tcagatccca gcacagccta ctcccttggg cctgggcacc tccaggctg       360
agcggagggt acctggtggg gtgggctggg tcttactgca ggtgtgcctg gctcagggaa      420
gagagctcgt ggttggctgt gccgttacct tcttcggatt gtcagactcc agactttggg      480
ccagttctgc ccctcccagc acatgtgatg tgccagtgtg gtggactctt caagggagct      540
ctatggatgt taaccctcct ccttccctgt ancctggcct gagacaggag aatggatgat      600
gcctttaatc agagctggtt tgactta                                         627
```

```
        <210> 846
        <211> 635
        <212> DNA
        <213> Homo sapiens


        <400> 846
tttcgtttca agtgctcttg cccaccaggc actcggggcc tactctgtga agagaacatt       60
gatgactgtg cccgggggtcc ccattgcctt aatggtggtc agtgcatgga taggattgga      120
ggctacagtt gtcgctgctt gcctggcttt gctggggagc gttgtgaggg agacatcaac      180
gagtgcctct ccaacccctg cagctctgag ggcagcctgg actgtataca gctcaccaat      240
gactacctgt gtgtttgccg tagtgccttt actggccggc actgtgaaac cttcgtcgat      300
gtgtgtcccc agatgccctg cctgaatgga gggacttgtg ctgtggccag taacatgcct      360
gatggtttca tttgccgttg tccccccggga ttttccgggg caaggtgcca gagcagctgt      420
ggacaagtga aatgtaggaa gggggagcag tgtgtgcaca ccgcctctgg accccgctgc      480
ttctgcccca gtccccggga ctgcgagtca ggctgtgcca gtagcccctg ccagcacggg      540
ggcagctgcc accctcagcg ccagcctcct tattactcct gccagtgtgc cccaccattc      600
tcgggtagcc gctgtgaact ctcaactcac ccacc                                635
```

```
        <210> 847
        <211> 1100
        <212> DNA
        <213> Homo sapiens
```

514

```
        <400> 847
gcaatttggt gctgctcctg cccctgggtg ctgagcaggc ctggtgctgt ctcccgtgga      60
cctggtcagg ccttacctct tgatgacaaa ctggatgctg ttgctggcct ccagaatctt     120
ccagagcttg gcgatcccga agcagttggg tctgcggagg gagatgcctt cgggcagccc     180
caccacaaac agctcctccg ggtgcatcag aaacttggag tacagcacct tgatgggttc     240
cgagatgcca atggccttgg ctgcagagac atggctgctg taagtccagc·cggtgccaca     300
gggccaggaa tctcaacccc tgtgtcccat gcctgtgtag agggcaaagc tgcctgtcct     360
tttgagggcc ttcctgggag gtgagccagg cgtgagccac cttgccctgc ctatattact     420
tatttgctta tgcttatctc tccacacgag gatgtgtacc ccaggaggtg gggacatctg     480
tttggtccac tgcttttttcc ccagcccctt gcacaggacc tattacacag taggtgctca     540
ataaatattt gttgaggcgg ggtgcattgg ctcacgcctg taatcccagc tctttgtgag     600
gccagggtag gaggatcatt tgaggtcagg agtttgagac ctggggggcc atcatgggga     660
agccccgtct ctactcaaaa cgcccaaaca attggcccag cgttgtgggt ggcctcctct     720
ggtcgccacc tacttcagag gtctgagcag cataactggt ttcgccccat atgccgtagg     780
tatctaggac tcttagatcg cacaattgac ttccggcctt gccgaatgga agctgtctcc     840
ctttctataa atctacgaac ttgggcgatt atgagtccca tgctgctctt agacttccgg     900
acgtcgtgga tgcccttaat cggcttcctc ggtctttcac gctcaaggcc ttagcccttc     960
tgtatctcct cttgtaccta catggcgccc gtacgtgttg ccttcgatgc·gcacgactcg    1020
cccgaataga ggacgtctct ccttgctctc tcgactcttc gaagactgtc aaacccgtcg    1080
caatactcgc tgttgtatcc                                                1100
```

```
        <210> 848
        <211> 685
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 848
caacaacaaa ccagaagagg gcttaaagga acttacaaaa gctgcacaca ggaatggaat      60
gaagaatgct gaagacatcc taaccatgga ggttttgaaa tccaccatga agcaagaact     120
ggaggcagca cagaaaaagc attctctttg tgaattgctc cgcatacca acatatgtaa     180
aagaatctgt ttcctgtcct ttgtgagatt tgcaagtacc atccctttt ggggccttac     ·240
tttgcacctc cagcatctgg gaaacaatgt tttcctgttg cagactctct ttggtgcagt     300
caccctcctg gccaattgtg ttgcaccttg ggcactgaat cacatgagcc gtcgactaag     360
ccagatgctt ctcatgttcc tactggcaac ctgccttctg gccatcatat ttgtgcctca     420
agaaatgcag accctgcgtg tggttttggc aaccctgggt gtgggagctg cttctcttgg     480
cattacctgt tctactgccc aagaaaatga actaattcct tccataatca ggggaagagc     540
tactggaatc actggaaact ttgctaatat tggggggagcc ctggcttccc tcgtgatgat     600
cctaagcata tattctcgac ccctgccctg gatcatctat ggagtctttg ccatcctctc     660
tggccttgtt gtcctcctcc ttccg                                            685
```

```
        <210> 849
        <211> 413
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 849
gatttttaat aatgattcca cctgctatat tttgggtttt aattatcttc ggatggacgc      60
tcgtctacgg ttttgtatac ttcacaacgg gagaaacgat tatggacaag ttactccgtg     120
tcctctactg gattctcgtg aagaccttct tcagagagat ttcggtgtcg caccaggagc     180
gtatccccaa agataagccg gtcatgctgg tgtgtgctcc gcatgccaac cagtttgtgg     240
acggaatggt catttcaacc catctggacc gcaaggtgta ctttgtgggt gcggcctcga     300
gtttccgcaa gtacaaggtg gtgggtctct tcatgaagct gatggcgtcc atcatttcgg     360
gggagcgtca ccaggacgtg aaaaaagtgc tgaccggaat ggcgacggag aag            413
```

515

```
<210> 850
<211> 395
<212> DNA
<213> Homo sapiens


<400> 850
aatggatgtt ctatgtgaaa gctgagttcc ttgtttcttt ctcttgcccg tggctgactg      60
cgtgtgctct attgatgtct tgttcctggt tcttgacact gaccatcttg tctgtgaaag     120
gaggcactcc ggcgggcatg cttgatcaga agaaagggaa gtttgcttgg tttagtcact     180
ccacagaaac ccatggtaat gttcccctgt gctctgtgtg tgtaaatgcg tgtgggtgca     240
taccagactg aatgggaagg tgtctctctt gatggcttgt gccgcagtag ttctgtgtgt     300
gtgcatatat gtgtatgtat atatgttgtg tgggtgtgtg tgtttgtgaa gggatggcaa     360
cctgtccccc tcaaagccac tgccttatca tggct                                395


<210> 851
<211> 904
<212> DNA
<213> Homo sapiens


<400> 851
cggcaaatgt agtgtattat gtgggagaaa atgtggtcaa tccttccagc ccatcaccaa      60
ataacagtgt tctcaccagt ggcgttggtg cagatgtggc caggatgtgg agatagcca      120
tccagcatgc ccttatgccc gtcattccca agggctcctc cgtgggtaca ggaaccaact     180
tgcacagtga gtctgccagt tttctaacca gcccaaagct catcatgtgc ctacccttg      240
cttagtaaac atgtgccctg cccttcctaa gaacagaatg aagaaagact tcttggggat     300
gacttagttt attgtagaat gtagggtgtc taaataaaag ctgctgcaca tactaagatg     360
tttagtttgt taaattatcc tattttatta tagctatttt atattaaaat ttaacaaatt     420
caggtaaaca ctatgtatta ggcaattaca gacctctaga gctattggtt ataaaagaag     480
aagtaatctg gccgggctca gtggctcaca cctctaaacc cagctcttag ggaggccaag     540
gtaggtggag gacttgagcc aagaggtcta gtccagcctg ggcaacatgg ggaaaccctg     600
tctctacaaa aaatacaaaa attagccagg catagtgtca tgcgcctgtg gtcccagcta     660
ctctggaggc tgaagcagga aaattgcttg agcttaagaa gcataagttg cagtgggggcc     720
aagatcaagc ccactggatt tctgccttgg ccaagaaaag aagagggagg aggggggaaga     780
agggaggagg aaggaaattt aaccagcttt cagctttgaa tgggaatggc ccgagatgaa     840
aaagtaacgg cgacaggggc attgacgagg gtccggggat gggcctgcaa cattatggta     900
gccc                                                                   904


<210> 852
<211> 592
<212> DNA
<213> Homo sapiens


<400> 852
cgacccacgc gtgcgggaag ctccgcagga tggggagaa gatggcggaa gaggagaggt       60
tccccaatac aactcatgag ggtttcaatg tcaccctcca caccaccctg gttgtcacga      120
cgaaactggt gctcccgacc cctggcaagc ccatcctccc cgtgcagaca ggggagcagg      180
cccagcaaga ggagcagtcc agcggcatga ccattttctt cagcctcctt gtcctagcta      240
tctgcatcat attggtgcat ttactgatcc gatacagatt acatttcttg ccagagagtg      300
ttgctgttgt ttctttaggt attctcatgg gagcagttat aaaaattata gagtttaaaa      360
```

```
aactggcgaa ttggaaggaa gaagaaatgt ttcgtccaaa catgttttc ctcctcctgc     420
ttccccctat tatctttgag tctggatatt cattacacaa gggtaacttc tttcaaaata     480
ttggttccat caccctgttt gctgttttg gaacggcaat ctccgctttt gtagtaggtg     540
gaggaattta ttttctgggt caggctcacg taatctctaa actcaacatg ac            592
```

```
    <210> 853
    <211> 436
    <212> DNA
    <213> Homo sapiens
```

```
    <400> 853
cccgaggcgg cttttaacca gcatctgggg tgaccaatct aagtagacag ggtcaggaca      60
acactgatgt gtatacagat gctgtttccc tgctgttctc ttctaagtat gaatcccggt     120
cccctttgca gacccagtag gtgaatccaa ttacgtagag caggggactg tggagctgtg     180
ttgtgagcag cacccaggtg atgccccatg gcagcatgtc ccacattcct tccatctttt     240
aaaaaaaatt tttctcggtg gcagtcttgc tctgtcgcct aggctggggt acagtggtgc     300
aatctcagct caccgcagcc tcaacctccc gggttcaagc aatcctccca ccttggcctc     360
ccaaagccaa agattgcagg tgtgagtcct cggctcggcg gtgggtcgac ccggaattcc     420
ggccggacga cgtcgt                                                     436
```

```
    <210> 854
    <211> 266
    <212> DNA
    <213> Homo sapiens
```

```
    <400> 854
agaaactgcc tctctggatg gtgactataa cctatagcct tgcccaatat gactcaggat      60
ttggtactga ctgtgccttt catgggatgc ttacttatcc tggtcgatgg cctaaagccc     120
aaccgtccag cttatatcca gacagggtct caagccaccc aggctggagt gcagtggcac     180
aattatggct cactgtagcc tcaccttcct gggatcaagc aatcttcttt cttcagcctc     240
cagaggagct gggaccacag atcctt                                          266
```

```
    <210> 855
    <211> 420
    <212> DNA
    <213> Homo sapiens
```

```
    <400> 855
agcctgcagg cccagctcgc ccaggcagag cagcgggccc agagcctcca aggggctgca      60
caccaggagc tcaacaccct caagttccag ctgagtgctg aaatcatgga ctaccagagc     120
agacttaaga atgctggtga agagtgcaag agcctcaggg ccagcttga ggagcaaggc      180
cggcagctgc aggctgctga ggaagctgtg gagaagctga aggccaccca agcagacatg     240
ggagagaagt tgagctgcac tagcaaccat cttgcagagt gccaggcggc catgctgagg     300
aaggacaagg aggggctgc cctgcgtgaa gaccaagaaa ggacccagaa ggaactcgaa      360
aaagccacgt gtattgcgga cgaaatcgtc gacccgggaa gtccggtccg aatgctgtca     420
```

```
    <210> 856
    <211> 412
```

```
       <212> DNA
       <213> Homo sapiens


       <400> 856
tttcgtcgcg ttctctcgct gcctgggctt ctgtggaatg agactcgggc tccttctact        60
tgcaagacac tggtgcattg caggtgtgtt tccgcagaag tttgatggtg acagtgccta       120
cgtggggatg agtgacggaa acccagagct cctgtcaacc agccagacct acaacggcca       180
gagcgagaac aacgaagact atgagatccc cccgataaca cctcccaacc tcccggagcc       240
atccctcctg cacctggggg accacgaagc cagctaccac tcgctgtgcc acggcctcac       300
ccccaacggt ctgctccctg cctactccta tcaggccatg gacctcccag ccatcatggt       360
gtccaacatg ctagcacagg acagccacct gctgtcgggc cagctgccca cg             412


       <210> 857
       <211> 403
       <212> DNA
       <213> Homo sapiens


       <400> 857
cggtccggcg caaggagggc ggctggttgt ggaaaaaggc ctgggcgagc tgtgcctgca        60
gcccctggct ggtttgggaa ggctgggctc ccaggctggt ggtagtggtg ggggtgattt       120
tcctcatgaa gcccccactc cgtccactac tgcctgacac ccacgaagcg agcagtttcc       180
ggagctctcc gatgtagggg cagcaggtgt agagcagctg ctggtccacc acaggcgcat       240
tgtccaagcc atgctctggg gctactgtgt ccacctcaaa ggcatatgag ggaccctctt       300
ccagaaagaa caagtcctca gggactgtgg gaatctggaa aagccagtcc agggcagcaa       360
gaagcagcag cttgttcagg aaacacatct tcccctcact ctc                       403


       <210> 858
       <211> 439
       <212> DNA
       <213> Homo sapiens


       <400> 858
tgagggtggc gcagggcccc cggccagccc ggggctgcag cagtgcggac agctccagaa        60
gctcatcggc atctccattg gcagcctgcg cgggctgggc accaagtgcg ctgtgtccaa       120
cgacctcacc gagcaggaga tacggaccct ggagcattgt cccaattcct tcttctaatg       180
aagaaatacg cttagttgat gatgcgtttg gaaaaatttg tcacatggtc agtgatggct       240
cttgggtggt tcgtgttcag gcagcaaaac tgttgggctc tatggagcaa gtcagttctc       300
atttcttgga gcagaccctt gacaagaagc atgtcagatc tgaggaggaa acgtactgca       360
catgagcgtg ccaaggaact ttacagttcg ggggagtttt ccagtggcag aaagtgggga       420
gatgatgctc ccaaggaag                                                   439


       <210> 859
       <211> 985
       <212> DNA
       <213> Homo sapiens

       <220>
       <221> misc_feature
       <222> (1)...(985)
       <223> n = a,t,c or g
```

518

```
        <400> 859
ggcagcatgg tggtgccgga gaaggagcag agctggatcc ccaagatctt caagaagaag    60
acctgcacga cgttcatagt tgactccaca gatccgggga gcctggattg tcactggggg   120
tctgcacacg ggcatcggcc ggcatgttgg tgtggctgta cgggaccatc agatggccag   180
cactggggggc accaaggtgg tggccatggg tgtggccccc tggggtgtgg tccggaatag   240
agacaccctc atcaacccca agggctcgtt ccctgcgagg taccggtggc gcggtgaccc   300
ggaggacggg gtccagtttc ccctggacta caactactcg gccttcttcc tggtggacga   360
cggcacacac ggctgcctgg ggggcgagaa ccgcttccgc ttgcgcctgg agtcctacat   420
ctcacagcaa aacacggccg tggcagggac tggaattgac atccctggcc tgctcctcct   480
gaaagaatgt gatgagaaga tggtgacgcg aatacacaac gccagccagg ctcagctccc   540
atgtcttcct tatgattgcg ttaaggggga gctacggact tgcctagcgg gcaccccttg   600
gaataccctc ttgcccccgg gaacggtggt tttccagcct acgccccgaa ccccgagaat   660
gcatccacgc gcctcgtttt gctgaattga ngatccttgg acgtccttgc atcccacatc   720
gtggcgaaat tatttatcta ccccccccccg ccggtgggag taattgcata cttccatccc   780
tattgcctcg ttttggagga gttggtgact ctcacttcta tcggtaatag gacattaccg   840
tatccgacct tatgactcgg ttccccgatc aacaatcgac tagtaccggc cgcggccacc   900
tacctcctta taacacttct ·cttaccggca cctccgtcct tggtagtaaa ctcctggcgc   960
tgtatctgtg tgctactgct aggcc                                         985
```

```
        <210> 860
        <211> 396
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 860
ctgcagaacc gagaggattc ttctgaaggc atcagaaaga agctggtgga agctgaggag    60
ctcgaagaga aacatcggga ggcccaagtc tcagcccagc acctagaagt gcacctgaaa   120
cagaaagagc agcactatga ggaaaagatt aaagtgttgg acaatcagat aaagaaagac   180
ctggctgaca aggagacact ggagaacatg atgcagagac acgaggagga ggcccatgag   240
aagggcaaaa ttctcagcga acagaaggcg atgatcaatg ctatggattc caagatcaga   300
tccctggaac agaggattgt ggaactgtct gaagccaata aacttgcagc aaatagcagt   360
cttttttaccc aaaggaacat gaaggcccaa tgtatt                            396
```

```
        <210> 861
        <211> 686
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 861
caagggaggg ctctgtgcca gccccgatga ggacgctgct gaccatcttg actgtgggat    60
ccctggctgc tcacgcccct gaggacccct cggatctgct ccagcacgtg aaattccagt   120
ccagcaactt tgaaaacatc ctgacgtggg acagcgggcc agagggcacc ccagacacgg   180
tctacagcat cgagtataag acgtacggag agagggactg ggtggcaaag aagggctgtc   240
agcggatcac ccggaagtcc tgcaacctga cggtggagac gggcaacctc acggagctct   300
actatgccag ggtcaccgct gtcagtgcgg gaggccggtc agccaccaag atgactgaca   360
ggttcagctc tctgcagcac actaccctca gccacctga tgtgacctgt atctccaaag   420
tgagatcgat tcagatgatt gttcatccta ccccccacgcc aatccgtgca ggcgatggcc   480
accggctaac cctggaagac atcttccatg acctgttcta ccacttagag ctccaggtca   540
accgcaccta ccaaatggtg agtgtatgtt gcacctggt ctttctctgc ctaggaagcc   600
tcttccctcc caattagatc tgagttgctt taagaaaaaa aggggacatg ttatgtaaat   660
tagcatttcc cacaacatgt cccttg                                        686
```

```
<210> 862
<211> 383
<212> DNA
<213> Homo sapiens


<400> 862
cagagagttc aagcccacac tccctgggcg tgtctggctg gtgtcacctt ttggagccaa        60
cccctggtgg tggagtgtgg cagctgccct gcctgccctg ctgctgtcta tcctcatctt       120
catggaccaa cagatcacag cagtcatcct caaccgcatg gaatacagac tgcagaaggg       180
agctggcttc cacctggacc tcttctgtgt ggctgtgctg atgctactca catcagcgct       240
tggactgcct tggtatgtct cagccactgt catctccctg gctcacatgg acagtcttcg       300
gagagagagc agagcctgtg cccccgggga gcgccccaac ttcctgggta tcagggaaca       360
gaggctgaca ggcctggtgg tgt                                               383



<210> 863
<211> 673
<212> DNA
<213> Homo sapiens


<400> 863
caaccccaag accaagaagc acctgggcat tgccaaggtg gtctttgcca cggtccgggg        60
agccaaggat gccgttcagc acttgcacag cacttccgtc atgggcaaca ttatccacgt       120
ggagctggac accaaaggtg agcctggcag gggaggagcg tggggagacc tgtcagcccg       180
acccttcccc tccccacccт tcctgcagcg tggggaggac ccccccтcac tcttccttgg       240
gatccccccc cacaacctta tttcttagcc ccctcctgag ggtagagtcg cgtggagcta       300
aatgtgttgt ctgttgctag gagacagtct gtaatttacc aaatgtgccg gtccttggcc       360
accgcacccc tagggaccac ccggaggctt ccccaccgct gacacccccg cgggcccccт       420
ctctgagccc tggtggcttg ggtttagaca gtccccagtg ttgcctgtgt taggggagga       480
gacagagttt gtttacttgt gggggactga ggaagtgcca ctaggatgcc ttgaaataca       540
tcaagagaag gtctgaaaac tgaaaagaga gtcctctaag gatccagggt gtcccccccac       600
ctccttgctg acccttcccc tctggaagtg gcagccaatc tggggcccag gaatgttgtt       660
tcattgataa ggg                                                         673



<210> 864
<211> 435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(435)
<223> n = a,t,c or g


<400> 864
gggaaatgtg tgggagccct gagcgtttgt gtgtgcgctg cgctcgtgtg tgcgctgtgt        60
tcatgcgtgc gctgtgtgtt gtgtgtgtat atctgcggag acgcataaag tatgagcgct       120
ttttaggatg ggaattgaga tgtaagattt gggggtgagg gccnccctga cccataggcc       180
tgacatcctc atcctatgga ccctagagtc tggccactcc aggaacctga cctgctctgt       240
gccccgcccc tgtaagcata gaacacccccc catgatctcc tggagtgggg cctccgagac       300
```

```
ctccccgggc cccactactg cccgttcctc agtgctcacc cttaccccaa agccccagga    360
nnaccggncc agccctcacc tgtnaggttg accttgcctg gggacagggt gtgacccacg    420
accnatacct ntncg                                                     435
```

```
        <210> 865
        <211> 2161
        <212> DNA
        <213> Homo sapiens


        <400> 865
        ggcggcgatg tcgctcgtgc tgctaagcct ggccgcgctg tgcaggagcg ccgtaccccg     60
        agagccgacc gttcaatgtg gctctgaaac tgggccatct ccagagtgga tgctacaaca    120
        tgatctaatc ccgggagact tgagggacct ccgagtagaa cctgttacaa ctagtgttgc    180
        aacaggggac tattcaattt tgatgaatgt aagctgggta ctccgggcag atgccagcat    240
        ccgcttgttg aaggccacca agatttgtgt gacgggcaaa agcaacttcc agtcctacag    300
        ctgtgtgagg tgcaattaca cagaggcctt ccagactcag accagaccct ctggtggtaa    360
        atggacattt tcctacatcg gcttccctgt agagctgaac acagtctatt tcattggggc    420
        ccataatatt cctaatgcaa atatgaatga agatggccct tccatgtctg tgaatttcac    480
        ctcaccaggc tgcctagacc acataatgaa atataaaaaa aagtgtgtca aggccggaag    540
        cctgtgggat ccgaacatca ctgcttgtaa gaagaatgag gagacagtag aagtgaactt    600
        cacaaccact cccctgggaa acagatacat ggctcttatc caacacagca ctatcatcgg    660
        gttttctcag gtgtttgagc cacaccagaa gaaacaaacg cgagcttcag tggtgattcc    720
        agtgactggg gatagtgaag gtgctacggt gcagctgact ccatattttc ctacttgtgg    780
        cagcgactgc atccgacata aaggaacagt tgtgctctgc ccacaaacag gcgtcccttt    840
        ccctctggat aacaacaaaa gcaagccggg aggctggctg cctctcctcc tgctgtctct    900
        gctggtggcc acatgggtgc tggtggcagg gatctatcta atgtggaggc acgaaaggat    960
        caagaagact tccttttcta ccaccacact actgcccccc attaaggttc ttgtggttta   1020
        cccatctgaa atatgtttcc atcacacaat ttgttacttc actgaatttc ttcaaaacca   1080
        ttgcagaagt gaggtcatcc ttgaaaagtg gcagaaaaag aaaatagcag agatgggtcc   1140
        agtgcagtgg cttgccactc aaaagaaggc agcagacaaa gtcgtcttcc ttctttccaa   1200
        tgacgtcaac agtgtgtgcg atggtacctg tggcaagagc gagggcagtc ccagtgagaa   1260
        ctctcaagac ctcttccccc ttgcctttaa cctttttctgc agtgatctaa gaagccagat   1320
        tcatctgcac aaatacgtgg tggtctactt tagagagatt gatacaaaag acgattacaa   1380
        tgctctcagt gtctgcccca agtaccacct catgaaggat gccactgctt tctgtgcaga   1440
        acttctccat gtcaagcagc aggtgtcagc aggaaaaaga tcacaagcct gccacgatgg   1500
        ctgctgctcc ttgtagccca cccatgagaa gcaagagacc ttaaaggctt cctatcccac   1560
        caattacagg gaaaaaacgt gtgatgatcc tgaagcttac tatgcagcct acaaacagcc   1620
        ttagtaatta aaacatttta taccaataaa attttcaaat attgctaact aatgtagcat   1680
        taactaacga ttggaaacta catttacaac ttcaaagctg ttttatacat agaaatcaat   1740
        tacagtttta attgaaaact ataaccattt tgataatgca acaataaagc atcttcagcc   1800
        aaacatctag tcttccatag accatgcatt gcagtgtacc cagaactgtt tagctaatat   1860
        tctatgttta attaatgaat actaactcta agaacccctc actgattcac tcaatagcat   1920
        cttaagtgaa aaaccttcta ttacatgcaa aaaatcattg ttttttaagat aacaaaagta   1980
        gggaataaac aagctgaacc cacttttact ggaccaaatg atctattata tgtgtaacca   2040
        cttgtatgat ttggtatttg cataagacct tccctctaca aactagattc atatcttgat   2100
        tcttgtacag gtgcctttta acatgaacaa caaaataccc acaaacttgt ctacttttgc   2160
        c                                                                  2161


        <210> 866
        <211> 505
        <212> DNA
        <213> Homo sapiens

        <220>
```

```
        <221> misc_feature
        <222> (1)...(505)
        <223> n = a,t,c or g


        <400> 866
cataagcctt gggcanagna ccttgaaata aatgnggcca cccacgcgcc cgcggacgcg       60
tggggttgga atattctact ttgttattta tatcatcata tccttcctgg ttgtggtgaa      120
catgtacatt gcagtcatac tggagaattt tagtgttgcc actgaagaaa gtactgaacc      180
tctgagtgag gatgactttg agatgttcta tgaggtttgg gagaagtttg atcccgatgc      240
gacccagttt atagagttct ctaaactctc tgattttgca gctgccctgg atcctcctct      300
tctcatagca aaacccaaca aagtccagct cattgccatg gatctgccca tggttagtgg      360
tgaccggatc cattgtcttg acatcttatt tgcttttaca aagcgtgttt tgggtgagag      420
tggggagatg gattctcttc gttcacagat ggaagaaagg ttcatgtctg caaatccttc      480
caaagtgtcc tatgaaccca tcaca                                           505



        <210> 867
        <211> 608
        <212> DNA
        <213> Homo sapiens


        <400> 867
ttcagttttt ggctctggtg caccatgtgc ctgggttaat ttgggtggct caatcccaaa       60
gcagctctga accccaaagc ggctcctctg aattcccagt ttcaagttcc actctgtccc      120
tgctgggcat ctcgagatat gggaaacagg gctgttataa ttgccagaca gctgagttct      180
gtacatacct tgatttgcaa tttttttttgg ctgcttctca ggacaactgg gggagattta      240
gattccttaa aatgcagtta tgaatctatt ggcctcaact ctatttctac ccatgaattc      300
atttgtactt ggcaaagacg acttaatttc tcatttgtta tgtcatttaa acctctcttt      360
agagcctctc ctcactctta cctgttaata atcggaagtc agctacatga aacgttcaat      420
ttgggttcca tctcctctga agaaaaatgc agttaaaaaa aaaataagag gtttggccag      480
ccgcagtggc tcacacctgt aatcccagca ttttgggagg ccgaggcagt cagatcacct      540
ggggcggga gttcgggaac cggcctggcc caacacagga gaaacccgt cttatactaa       600
acaatata                                                             608



        <210> 868
        <211> 772
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(772)
        <223> n = a,t,c or g


        <400> 868
tttcgtagcg caggcagggt tccctgctgg ggcccgggct gcccagccat gctttgggca       60
ctctggccaa ggtggctggc agacaagatg ctgcccctcc tggggggcagt gctgcttcag      120
aagagagaga agaggggccc tctgtggagg cactggcggc gggaaaccta cccatactat      180
gacctccagg tgaaggtgct gagggccaca aacatccggg gcacagacct gctgtccaaa      240
gccgactgct atgtgcaact gtggctgccc acggcgtccc caagccctgc ccagactagg      300
atagtggcca actgcagtga ccccgagtgg aatgagacct tccactacca gatccatggt      360
gctgtgaaga acgtcctgga gctcacccctc tatgacaagg acatcctggg cagcgaccag      420
ctctctctgc tcctgtttga cctgagaagc ctcaagtgtg gccaacctca caaacacacc      480
```

```
ttcccactca accaccagga ttcacaagag ctgcaggtgg aatttgttct ggagaagagc    540
caggagcctg catctgaagt catcaccaac ggggttctgg gggctcaccc ctggctgaga    600
atgaagggta tgattttggg agaggggaga gccccacggc aacagcacgg ccaatcttgg    660
gagggggggg tgggaccctc cccctctcc ccnngnanaa acaccggagg gaagatagtt    720
gggttttggg aagaaatggc gaatgggacc ggcgccccac ccgcccccc ct            772
```

```
        <210> 869
        <211> 704
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(704)
        <223> n = a,t,c or g


        <400> 869
tttcgtggca tgatgagcat gattaccagc ctcggccact ggctgctgca gggcttttcc     60
tgagccatgg tgtcttctgc cgtcaaaggg cgaccctaac tgcatcctgc tggagtcgag    120
aaaaccaggt agactggaaa ggatgtgtct acagtaactg aaacacatca ctgcgttttg    180
ttacagtcaa tgatagggca gatctgagtt ccagagcacg gctcacagac ctttccttgc    240
atcagtctgt gccgaagtcn nnnnnnnnnc tttttttttt ttttgcccac attacatcac    300
ttcataattt accacctacg tagcatgact gtatatttgg aatcatttct tcacaagttt    360
tagaccatat taaaggaaca ctggcagaac cctgtttgat ttccctttcg tctgttcccc    420
tacattgccc tcctggcccc cttgaggaac tagatgagcg attagaactg gccagaggtc    480
cttggaggaa caacagcgaa acagaagcat tagtagcatt gtcctcccca gtctaacact    540
tgtcggaccc ctgatgagca gacttccctg tggggtgttc atatccccat gccccgctca    600
gtgggcttca tgtctgagtc atatttgcct gctttccttt gaggtggtgg gcgccaaggt    660
tgtgacaaat gcccggagtc ctggagctcg ctgttacggt tttg                    704
```

```
        <210> 870
        <211> 389
        <212> DNA
        <213> Homo sapiens


        <400> 870
tttcgtgagg ctttgttctt ttgttctttg tgatagatct aattgctgct cactctttgg     60
gtctgtactg cgtttatgag ctgtgacact cgccgtgaag gtctgcagct tcactcctga    120
accagcgaga ggaggaaccc accagaagga ggaaaacgcg gaacacatct gaatatcaga    180
aggaacaaac tccagacacg ccgcctttaa gaactgtaac agtcaccgcg agggtccgtg    240
gtttcattct tgaagtaagt gagaccaaga acctgccaat ttcagacaca atggagagcg    300
ccagtcctgc tgcggggcca tacatctatt taatttcctc tcatcttccc cccggttccg    360
agaggaaggt gctttcacct gcactgttc                                      389
```

```
        <210> 871
        <211> 643
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
```

```
<222> (1)...(643)
<223> n = a,t,c or g


<400> 871
tttcgtggat ggagccctcc tcctgatcct gtagtggtag taagaatcac cagcgcgggc        60
aaggagtacg gacgggagtc agaggcagag cgagggtgtg tggagggccg gcggggaccg       120
ccgggagcgc gcggatgtcg gtgttcctgg ggccagggat gccctctgca tctttattag       180
taaatcttct ttcagcttta ctcatcctat ttgtgtttgg agaaacagaa ataagattta       240
ctggacaaac tgaatttgtt gttaatgaaa caagtacaac agttattcgt cttatcattg       300
aaaggatagg agagccagca aatgttactg caattgtatc gctgtatgga gaggacgctg       360
gtgacttttt tgacacatat gctgcagctt ttatacctgc cggagaaaca aacagaacag       420
tgtacatagc agtatgtgat gatgacttac cagagcctga cgaaactttt atttttcact       480
taacattaca gaaaccttca gcaaatgtga agcttggatg gccaaggact gttactgtga       540
caatattatc aaatggacaa atggcatttt gggaatttat tttcatttta aatattggcc       600
ttccccctcc aattccgcca agtggaagnt tgaaagcccc cct                         643




<210> 872
<211> 498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = a,t,c or g


<400> 872
attcccgtgt cgacgatttc gtagcgcctg agagggcggt ggggtggcgg ngttcctgcg        60
cgcggcccgc catggatgtg gaggaggcgt tccaggcggt gggggagatg ggcatctacc       120
agatgtactt gtgcttcctg ctggccgtgc tgctgcagct ctacgtggcc acggaggcca       180
tcctcattgc actggttggg gccacgccat cctaccactg ggacctggca gagctcctgc       240
caaatcagag ccacggtaac cagtcagctg gtgaagacca ggcctttggg gactggctcc       300
tgacagccaa cggcagtgag atccataagc acgtgcattt cagcagcagc ttcacctcta       360
tcgcctcgga gtggttttta attgccaaca gatcctacaa agtcagtgca gcaagctctt       420
ttttcttcag tggtgtattt gttggagtta tctcttttgg tcagctttca gatcgcttcg       480
gaaggaaaaa agtctatc                                                     498




<210> 873
<211> 404
<212> DNA
<213> Homo sapiens


<400> 873
tttcgtctgt gagctgcggc agctgagcag aggcggcggc gcgggacctg cagtcgccag        60
ggattccctc caggtgacga tgctctggtt ctccggcgtc ggggctctgg ctgagcgtta       120
ctgccgccgc tcgcctggga ttacgtgctg cgtcttgctg ctactcaatt gctcgggggt       180
ccccatgtct ctggcttcct ccttcttgac aggttctgtt gcaaaatgtg aaaatgaagg       240
tgaagtcctc cagattccat ttatcacaga caacccttgc ataatgtgtg tctgcttgaa       300
caaggaagtg acatgtaaga gagagaagtg ccccgtgctg tcccgagact gtgccctggc       360
catcaagcag aggggagcct gttgtgaaca gtgcaaaggt tgca                        404
```

524

```
<210> 874
<211> 435
<212> DNA
<213> Homo sapiens


<400> 874
gaattcatcc gtcagtgtgg agtggccctc tgcatcgtgc tgggattctc catcctgtct      60
gcatccatcg gcagctctgt ggtgagggac agggtgattg gagccaaaag gttgcagcac     120
ataagtggcc ttggctacag gatgtactgg ttcacaaact tcctatatga catgctcttt     180
tacttggttt ccgtctgcct gtgtgttgcc gttattgtcg ccttccagtt aacagctttt     240
actttccgca agaacttggc agccacggcc ctcctgctgt cacttttcgg atatgcaact     300
cttccatgga tgtacctgat gtccagaatc ttttccagtt cggacgtggc tttcatttcc     360
tatgtctcac taaacttcat ctttggcctt tgtaccatgc tcataaccat tatgccccgg     420
ttgctagcca tcatc                                                     435



<210> 875
<211> 703
<212> DNA
<213> Homo sapiens


<400> 875
cctacttctc ccccagtgga tgcagaatgt gctgggccag gtgctggacg cgctggaata      60
cctgcaccat ttggacatca tccacagacc cctttcgtaa gtgctggatg gcccctgaag     120
ccctcaactt ctccttcagc cataaatcag acatctggtc cctgggctgc atcattctgg     180
acatgaccag ctgctccttc atggatggca cagaagccat gcatctgcgg aagtccctcc     240
gccagagccc aggcagcctg aaggccgtcc tgaagacaat ggaggagaag cagatcccgg     300
atgtggaaac cttcaggaat cttctgccct tgatgctcca gatcgacccc tcggatcgaa     360
taacgataaa gtgagctcag ggtcggggtt tattttaacc tgtggattta tctttcaaca     420
tctctccacc ctaatacaag cacagctagt tggctttgta acgcctcaaa gaactccatc     480
acagatgccc tgattatccc tgcacagctg ggctttgccc agttctggct ctcccaaacc     540
gtgctgcggc gagtaatccc gaatgtacgg tggagtgagc agactgaccc ccaggaggca     600
caggaggcgt agcccccagg acccacgaca cttttagggt tccagaaaaa agttttcatt     660
caacataaaa aaaaaaaaat tcctaaagac aaaaaaaaaa aaa                       703



<210> 876
<211> 429
<212> DNA
<213> Homo sapiens


<400> 876
tattatgaca gtgcggtgga attcgtggag tgagtctgag gacagcagat gaacagacag      60
aaactgaaag atcccctaat ttgatgagtg agagggtcga gcggaactgg agcacgggcg     120
gctggctgct ggcactgtgc ctggcctggc tgtggaccca cctgaccttg gctgccctgc     180
agcctcccac tgccacagtg cttgtgcagc agggcacctg cgaggtgatt gcggctcacc     240
gctgctgcaa ccggaaccgc atcgaggagc gctcccagac ggtgaaatgc tcctgttttt     300
ctggccaggt ggccggcacc acgcgggcaa agccctcctg cgtggacgac ctgctcttgg     360
ctgcccactg tgctcgtaga gaccctagag ctgcactccg cctcctgctt ccacagcctc     420
catcgtcct                                                            429
```

```
<210> 877
<211> 1140
<212> DNA
<213> Homo sapiens


<400> 877
cgtcactagc agtttctgga gctacttgcc aaggctgagt gtgagctgag cctgccccac      60
caccaagatg atcctgagct tgctgttcag ccttgggggc cccctgggct ggggctgct      120
gggggcatgg gcccaggctt ccagtactag cctctctgat ctgcagagct ccaggacacc     180
tggggtctgg aaggcagagg ctgaggacac cggcaaggac cccgttggac gtaactggtg      240
cccctaccca atgtccaagc tggtcacctt actagctctt tgcaaaacag agaaattcct      300
catccactcg cagcagccgt gtccgcaggg agctccagac tgccagaaag tcaaagtcat      360
gtaccgcatg gcccacaagc cagtgtacca ggtcaagcag aaggtgctga cctctttggc      420
ctggaggtgc tgccctggct acacgggccc caactgcgag caccacgatt ccatggcaat      480
ccctgagcct gcagatcctg gtgacagcca ccaggaacct caggatggac cagtcagctt      540
caaacctggc caccttgctg cagtgatcaa tgaggttgag gtgcaacagg aacagcagga      600
acatctgctg ggagatctcc agaatgatgt gcaccgggtg gcagacagcc tgccaggcct      660
gtggaaagcc ctgcctggta acctcacagc tgcagtgatg gaagcaaatc aaacagggca      720
cgagttccct gatagatcct tggagcaggt gctgctaccc cacgtggaca ccttcctaca      780
agtgcatttc agccccatct ggaggagctt taaccaaagc ctgcacagcc ttacccaggc      840
cataagaaac ctgtctcttg acgtggaggc caaccgccag gccatctcca gagtccagga      900
cagtgccgtg gccagggctg acttccagga gcttggtgcc aaatttgagg ccaaggtcca      960
ggagaacact cagagagtgg gtcagctgcg acaggacgtg gaggaccgcc tgcacgccca     1020
gcactttacc ctgcaccgct cgatctcaga gctccaagcc gatgtggaca ccaaattgaa     1080
gaggctgcac aaggctcagg aggccccagg gaccaatggc agtctggtgt tggaacgcct     1140


<210> 878
<211> 1139
<212> DNA
<213> Homo sapiens


<400> 878
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ctccacttcg tgcaccaggc ctgcctgcag cagtggatca agagctccga cacgcgctgc      120
tgcgagctct gcaagtatga gttcatcatg gagaccaagc tgaagccact gagaaaatgg      180
gagaagttgc agatgacgtc cagcgagcgc aggaagatca tgtgtctcagt gacattccac     240
gtcattgcca tcacatgtgt ggtctggtcc ttgtatgtgc tcattgaccg tactgctgag      300
gagatcaagc aggggcaggc aacaggaatc ctagaatggc ccttttggac taaattggtg      360
gttgtggcca tcggcttcac cggaggactt cttttttatgt atgttcagtg taaagtgtat      420
gtgcaattgt ggaagagact caaggcctat aatagagtga tctatgttca aaactgtcca      480
gaaacaagca aaagaatat ttttgaaaaa tctccactaa cagagcccaa ctttgaaaat      540
aaacatggat atggaatctg tcattccgac acaaactctt cttgttgcac agagcctgaa      600
gacactggag cagaaatcat tcacgtctga ttgtgtgcgg gttgtcattt tcctggacat      660
ccatgaagag ctgaaggaaa ttgtttactg ccaattgtat acctttctta tgtcctttaa      720
tagcatagac tggacaggtg actatttata gtggcttctc tttttctaaa ccctccttag      780
tctcctagaa aaccttcctg tgggccaggc atgcctgggt cctgcctctg cctggcagct      840
ctgtgggaaa gtggaagacc ccatgatgac atcatgggga gccagcagag ttcctgccca      900
tggtcttgag ctgaatgaga gaataaaatg ccaatcccaa gggaagagga ggagcagggg      960
tgcccaggcc ctgatcccca gccgcctcca gcttgcagtg gtccccagcc tggagcagag     1020
cattggggag tgtctaagcc atgacgagaa gattccctct gcatcacggc gaacccccag     1080
gagatggtat ttgaaaacag accccaaac acagactcct gcctgccctc ttgccgatg      1139


<210> 879
```

```
<211> 478
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(478)
<223> n = a,t,c or g


<400> 879
ggtcacgcaa gcggcnncnn nttttgagac ctttgatagc gtgtaggaan ncccaggcca        60
gtgaatgtca gttcgtcggg cactgactcc gtctgctctt ggccttgtgt tcattttaca       120
aatatttgcc cacggcctcc caggcccagg cccatgccac ctgggcgccg gcatctgttt       180
gaggatctgc caatgtgctc ttaactgagg acgaaggaag aacacctttc tatgagtctt       240
gcaaagatta cctccttcag gccacaaata tttgagtgca cactacgtgc caggcactgt       300
gcagggctgc aggcatagag acagaatgta atctatctgg gccttggacc ccataggag        360
aggggaccac tcaggtccat acttcctttg gacttggggc tttggccttg ggaggggcgg       420
aggtggcgtg gcaagatgaa aaagacatcc tgcccccatc cacttgggca gagcttct         478


<210> 880
<211> 546
<212> DNA
<213> Homo sapiens


<400> 880
atgctgggta tccgtgatgt gagagggttt agcacgggaa cactgcagac gcctgcctgg        60
gagctcaggt gctgcggtcc tcccttctgc ctgaaggagg catatggcca ggggctccgc       120
ctgacactca cgaggcagta tatgcggatg atgggagtgc atccagtgat ccatttcctg       180
gcctggttcc tggagaacat ggctgtgttg accataagca gtgctactct ggccatcgtt       240
ctgaaaacaa gtggcatctt tgcacacagc aataccttta ttgttttcct ctttctcttg       300
gattttggga tgtcagtcgt catgctgagc tacctcttga gtgcattttt cagccaagct       360
aatacagcgg cccttttgtac cagcctggtg tacatgatca gctttctgcc ctacatagtt       420
ctattggttc tacataacca attaagtttt gttaatcaga catttctgtg ccttcttttcg       480
acaaccgcct ttggacaagg ggtattttt attacattcc tggaaggaca agagacaggg       540
attcac                                                                  546


<210> 881
<211> 918
<212> DNA
<213> Homo sapiens


<400> 881
ctgcggaatt cggcacgagc gggaaagtgg tctagctgct tcaggatagg tggatgagag        60
tttgctctga ttgaacggaa tgttccaccg tgtttcatct ttattcatta tcctttgttc       120
tttaaaatct gatatattgg cataaaagta attgtacata tatatatgaa tgtgatttat       180
tttcctttac atcttttttgt tgtgtacagc agggcatata cttctcttgt cttggttgga       240
tgcacaaatc tgtgtgcagt gcttttttgcc cgttgcctag acgatcactt ggtttctctg       300
aggatgtctg gttctcgtaa agagtttgat gtgaaacaga ttttgaaaat cagatggagg       360
tggtttggtc atcaagcatc atctcctaat tctacagttg acagccagca gggagaattt       420
tggaaccgag gacagactgg agcaaacggt gggagaaagt ttttagatcc atgtagccta       480
caattgcctt tggcttcaat tggttaccga aggtccagcc aactggattt tcagaattca       540
ccttcttggc caatggcatc cacctctgaa gtccctgcat ttgagtttac agcagaagat       600
```

527

```
tgtggcggtg cacattggct ggatagacca gaagtggatg atggcactag tgaagaagaa    660
aatgaatctg attccagttc atgcaggact tccaatagta gtcagacatt atcatcctgt    720
catactatgg agccatgtac atcagatgaa tttttccaag cccttaatca tgccgagcaa    780
acatttaaaa aaatggaaaa ctatttgaga cataaacagt tgtgtgatgt aattttagtc    840
gctggtgatc gcagaattcc agctcacaga ttggtgctct cctctgtctc agactatttt    900
gctggcatgt ttactaat                                                  918
```

```
        <210> 882
        <211> 604
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(604)
        <223> n = a,t,c or g


        <400> 882
agcgtggtgg aattccgcag tggtacgtaa atggggtgaa ttattttact gacctgtgga     60
atgtgatgga cacgctgggg cttttttact tcatagcagg aattgtattt cggctccact    120
cttctaataa aagctctttg tattctggac gagtcatttt ctgtctggac tacattattt    180
tcactctaag attgatccac atttttactg taagcagaaa cttaggaccc aagattataa    240
tgctgcagag gatgctgatc gatgtgttct tcttcctgtt cctctttgcg gngtggatgg    300
tggcctttgg cgtggccagg caagggatcc ttaggcagaa tgagcagcgc tggaggtgga    360
tattccgttc ggtcatctac gagccctacc tggccatgtt cggccaggtg cccagtgacg    420
tggatggtac cacgtatgac tttgcccact gcaccttcac tgggaatgag tccaagccac    480
tgtgtgtgga gctggatgag cacaacctgc cccggttccc cgagtggatc accatccccc    540
tggtgtgcat ctacatgtta tccaccaaca tcctgctggt caacctgctg gtcgccatgt    600
ttgg                                                                 604
```

```
        <210> 883
        <211> 1206
        <212> DNA
        <213> Homo sapiens


        <400> 883
tttttttttt caacagcttc cttctccccc aagaacccag aaggcatgga acatggacga     60
cctacagggc ctgctggaga agaccaatgg gtgcatggga tgaccggcag cttccctcaa    120
gtggcttccc agagactact aggagaactt ggtcctatcg ctgcccccac ctggaagctg    180
gacttaagga tcccccaaag aacggggcaa ttagaaacct cccacccagc gaagggataa    240
gcttctcaac tcagtcccac cactcttcat cgcaaccctc tgagtctgca gcagaaacaa    300
acatctccaa gttacagagg aggggatgga atcccaagg ggccgagcgg tagccctttt    360
aacttataag cctgttgatt agcctatacg agttatttgc acgtcaagaa aggaagtagc    420
ctgctccttc ctgcagcgtc ctgctggtgt gacagcacgt ccccaagctc agtgctaacc    480
tccttattaa acatcccctg ctgtgactca gggaacccac atgggtactc taaaacagtc    540
attcagggac cccacggggt catgtgggag ggagacagat cccagaaaga gcacaagtga    600
gtcattacca aaaactccaa ggcccgcaca ccggacgcac atacccagct aggggcagac    660
tcaaagatcc cagcccttat cttctcccca tatcagagct cggaagccag aaatcttcct    720
aaggcaggtg aaagcaagcc gagccccact gctgaaggac aaagccacag gaagcctgat    780
gacatctttc ctctgaggct tccaaacgat caccccaaat tgcttgctga tactgggaag    840
agtggccatg aactctccat tgctctgctg gctgtggaat gtttgctcag cacaggaagc    900
atttaaggag aaagtcaaag tagccaaaag gcaaaccaga tggtggtgga catgtgggtg    960
acagagcatc ctgcatttgt tgcctcgggg tgcagcccca aagataaagc cagcagtgtg   1020
```

528

```
caaatgacaa atgctacccc acctccgcca ggcagccaga gccagggccg aaggacgcgg    1080
aaaggaactg gtgtggaaac ctgcccagga accgcactct caactgagaa gagtccgggg    1140
cgcgtccccg cccggccgcc cggctgtgaa ttccgccaca cggcctaggg tgctcgaggt    1200
ctcgat                                                               1206
```

```
        <210> 884
        <211> 420
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(420)
        <223> n = a,t,c or g


        <400> 884
cggcgtcatc gccggtgaag ttggtgaaac cgtctgggta ccactgctcg tagcgctcgt     60
catggcattg ctgacagcaa cgtcgtatgc cgaactggtc accaaatatc cgcgggcggg    120
cggtgcagca gtattcgccc aacgggcgta tcggaaacca ctgatctcgt tccttgtcgg    180
cttctcgatg ctggcggccg gcgtaaccag tgcggcggga ctcgccctcg ccttctcggg    240
cgactatctc aaagccttca tcgacgtccc aaccgttcca gcggcgctcg tcttcctgct    300
cctggtggga cttctcaatg ccagaggcat caaggagtcc atgcgcgcca ncgtcgtcat    360
gacagtcgtg gaagtcaccg ggctcgtcct cgttgtcgtc ctcgcgctcg tgccaggcag    420
```

```
        <210> 885
        <211> 1696
        <212> DNA
        <213> Homo sapiens


        <400> 885
accctgaaca gaatcgcaga ttgccagccc ttttcccgac ccctacggaa agacgagtcc     60
aggggccgtc ctggcgaggt caaaacattt agtctggtct tttcagcgtg gaccctgcca    120
gcagccaggc catggagctc tctgatgtca ccctcattga gggtgtgggt aatgaggtga    180
tggtggtggc aggtgtggtg gtgctgattc tagccttggt cctagcttgg ctctctacct    240
acgtagcaga cagcggtagc aaccagctcc tgggcgctat tgtgtcagca ggcgacacat    300
ccgtcctcca cctggggcat gtggaccacc tggtggcagg ccaaggcaac cccgagccaa    360
ctgaactccc ccatccatca gagggtaatg atgagaaggc tgaagaggcg ggtgaaggtc    420
ggggagactc cactggggag gctggagctg ggggtggtgt tgagcccagc cttgagcatc    480
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ggctcaaatt cctcaatgat accgaggagc tggctgtggc taggccagag gataccgtgg    660
gtgccctgaa gagcaaatac ttccctggac aagaaagcca gatgaaactg atctaccagg    720
gccgcctgct acaagaccca gcccgcacac tgcgttctct gaacattacc gacaactgtg    780
tgattcactg ccaccgctca cccccagggt cagctgttcc aggcccctca gcctccttgg    840
ccccctcggc cactgagcca cccagccttg gtgtcaatgt gggcagcctc atggtgcctg    900
tctttgtggt gctgttgggt gtggtctggt acttccgaat caattaccgc caattcttca    960
cagcacctgc cactgtctcc ctggtgggag tcaccgtctt cttcagcttc ctagtatttg    1020
ggatgtatgg acgataagga cataggaaga aaatgaaagg gtcctctgaa ggagttcaaa    1080
gctgctggcc aagctcagtg gggagcctgg gctctgagat tccctcccac ctgtggttct    1140
gactcttccc agtgtcctgc atgtctgccc ccagcaccca gggctgcctg caagggcagc    1200
tcagcatggc cccagcacaa ctccgtaggg agcctggagt atccttccat ttctcagcca    1260
aatactcatc ttttgagact gaaatcacac tggcgggaat gaagattgtg ccagccttct    1320
cttatgggca cctagccgcc ttcaccttct tcctctaccc cttagcagga atagggtgtc    1380
```

```
ctcccttctt tcaaagcact ttgcttgcat tttattttat tttttttaaga gtccttcata    1440
gagctcagtc aggaaggggga tggggcacca agccaagccc ccagcattgg gagcggccag    1500
gccacagctg ctgctcccgt agtcctcagg ctgtaagcaa gagacagcac tggcccttgg    1560
ccagcgtcct accctgccca actccaagga ctgggtatgg attgctgggc cctaggctct    1620
tgcttctggg gctattggag ggtcagtgtc tgtgactgaa taaagttcca ttttgtggtc    1680
ctgcaaaaaa aaaaaa                                                     1696
```

<210> 886
<211> 1410
<212> DNA
<213> Homo sapiens

<400> 886
```
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ggcgtcggat gcgcggcggg tcttgggacc gggctctctc tccggctcgc cttgccctcg    120
ggtgattatt tggctccgct catagccctg ccttcctcgg aggagccatc ggtgtcgcgt    180
gcgtgtggag tatctgcaga catgactgcg tggaggagat tccagtcgct gctcctgctt    240
ctcgggctgc tggtgctgtg cgcgaggctc ctcactgcag cgaagggtca gaactgtgga    300
ggcttagtcc agggtcccaa tggcactatt gagagcccag ggtttcctca cgggtatccg    360
aactatgcca actgcacctg gatcatcatc acgggcgagc gcaataggat acagttgtcc    420
ttccatacct ttgctcttga agaagatttt gatattttat cagtttacga tggacagcct    480
caacaaggga atttaaaagt gagattatcg ggatttcagc tgccctcctc tatagtgagt    540
acaggatcta tcctcactct gtggttcacg acagacttcg ctgtgagtgc ccaaggtttc    600
aaagcattat atgaaggtag gagattggtt gtgttttgca catgcattca ctgtccaaat    660
gatctaatac atgctacact ggattaataa tgacaaacta ggctgctatg tcgcaggtcg    720
ttccgtggtg tagacatttg gcttctgtgt aatgcaatgg catttggtaa cactgttata    780
atcgccaaac tttccagccc aaaacgtgtt cacaattttc ttcttatcac tagaactttt    840
cttcttgggg ttttgttttg gttaatttgt agcgaataag ttttgagaaa tttgactata    900
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tttttggttg gacaattata ctgatagtgc ttgagtaaag gaaatttcat taaatgagct   1020
tttgttgtca aagctgaaat ttttaagaga gaaaattaat ttgctttttac tgttgtttga   1080
tcatgcaagg catagagact tatttgtttt catgtcttca gatttgtgc ctagatacct    1140
ttgaggtatt gctatcatta ttaaaacggc ttttggcaga aattttttttt aaatgcagag   1200
atagaacttt ggaaaaggaa attatcattt caagtattag gtttttaagaa attgaactag   1260
ttaatacttt aaaggccgat gtgtgtctac ttttgttttg catggagatt ttaaattgcc    1320
ttttacacgt aatacaagag ctactgtctg taacagaaac tctggagtct gtaaatttaa    1380
aaagcaatct atcgttaggg gtgctgtatt                                     1410
```

<210> 887
<211> 413
<212> DNA
<213> Homo sapiens

<400> 887
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tgactcccag aacaaccagt atattttgac caaacccaga gattcaacca tcccacgtgc     60
agatcaccac tttataaagg acattgttac cataggaatg ctgtctttgc cttgtggctg    120
gctatgtaca gccataggat tgcctacaat gtttggttat attatttgtg gtgtacttct    180
gggaccttca ggactaaata gtattaaggt aagaacaaaa ttggattgtt ttggtatctg    240
tttaacagaa tataaaaga gaattcatga agactaaaaa gtattgaatg tgattaatgc     300
agataccagc ttcgtataaa ccatttcaaa gatgtccttt caggtgtcac gggaagtctc    360
tgaaccctca ggaagtcgct gtgcctgtta gtgaaggggc ggtgttactg gaa           413
```
```

530

```
        <210> 888
        <211> 887
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(887)
        <223> n = a,t,c or g


        <400> 888
ctttcctgga gaactgagaa aattctttac cggctggatg tgggttggcc taagcaccca        60
gaatatttta ccggaacaac attntgtgtt gcagttgact ccctcaatgg attggtttac       120
ataggtcaag taagtaaata gagatttaaa aaattatgaa cacaaaggaa gtaacagcct       180
tcctgtcttg ctgtagtaac tgaccatatg cgtttatatc atgctaattg tgcaatttat       240
ttttgagttg gtctcaagta ttttggtttc gaatgtgaaa gatatgttag attttgaaag       300
tggtttttgt agtaaaattc tcagttattt tttttcttcg ccaagataca gattaccttt       360
cctttaagct gatcctaagg aagttatttt ttgtatacct tcagagaggg gataacatcc       420
caaagatatt agtgttcaca gaggatggat atttcctacg agcctggaat tatacagttg       480
acacacctca tggtatattt gcagccagta ctctatatga acaatccgtc tggatcacgg       540
atgtaggaag tggattcttt ggtcatactg ttaaaaaata cagttctttt ggtgatcttg       600
ttcaagtctt gggtactcca ggcaaaaaag gcactagttt gaatcctttg cagtttgata       660
acccagcaga attatatgta gaggacacag gagatattta cattgtggat ggagatggag       720
gattgaataa cagattgatc aaactgtccc aagatttcat gatcctttgg ctgcatggag       780
aaaatgggac agggcctgct aagttcaaca tacctcacag tgttacactt gattcagctg       840
gtcgggtaca aatacagcgt cattgtgtct gggaaaaaaa aaaaaaa                     887



        <210> 889
        <211> 1871
        <212> DNA
        <213> Homo sapiens


        <400> 889
atggctgccg ctgcccttac aagcctgtcc accagccctc tccttctggg ggccccggtt        60
gcagccttca gcccagtgcc ccctactgag gccaaagcgg caggacccag gccttctggc       120
ctccctgacc tgctcaccte cacgcggctg gccacacacg tctgccaacc ctttcctgtg       180
ccggggggggt ttctccccaa gccctggggc cagctcctcc aagacgctct gcccaccagt       240
ctcaccggac ttggtgaaca ggggcagctc aggattaggg actccctgga cccacccgaa       300
gttctaaggc gggggggcccg tgtccccaca gagcctggcc tggagccctg gaaggaggcc       360
ctggtgcggc ccccaggcag ctacagcagc agcagcaaca gtggagactg gggatgggac       420
ctggccagtg accagtcctc tccgtccacc ccgtcacccc cactgccccc cgaggcagcc       480
cactttctgt ttggggagcc caccctgaga aaaaggaaga gcccggccca ggtcatgttc       540
cagtgtctgt ggaagagctg cgggaaggtg ctgagcacgg cgtcggcgat gcagagacac       600
atccgcctgg tgcacctggg gaggcaggca gagcctgatc agagtgatgg tgaggaggac       660
ttctactaca cagagctgga tgttggtgtg gacacgctga ccgacgggct gtccagcctg       720
actccagtgt cccccacggc ctccatgccg cctgccttcc cccgcctgga gctgccagag       780
ctgctggagc ccccagcct gcctagtccc ctgcggccgc ctgccccgcc cctgcccccg       840
cccctgtcc tgagcaccgt tgctaacccc cagtcctgtc acagtgaccg tgtctaccag       900
ggctgcctga cgcccgcccg cctggagccg cagcccacgg aggtcggagc ctgcccaccc       960
gccttgtcct ccaggatcgg agtcaccctg aggaagcccc gcggcgacgc gaagaagtgc      1020
cggaaggtgt atggcatgga gcgccgggac ctctggtgca cagcctgccg ctggaagaaa      1080
gcctgccagc ggttcctgga ctaagtccgg ctcgttcaag aacataagct accaccttct      1140
ccctccccac ccctccagg cccggggctg aaacagcccg aggacagccc caggggctgg      1200
ccttcaccag ctgcagggtc tgcttttact tggggtgggg gggcggggct gaccctgaac      1260
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cctcccccc  gccaggtcgg  ggaggggtcc  caccactcaa  agtgcctcta  aagaaaccag      1320
cttttttgcac taaagccaaa  ccacaccgct  gtccccttag  ccccaagggc  cctgggggca      1380
gccacccctcc cgcctgtcgg  cccgtagatt  tatcaagggt  gttatgggcc  cagctttggg      1440
gggccagtcc  cgatgcactt  tgaggggtgt  tggagagggg  actcccccac  tcgcacttaa      1500
ctcaacggct  ctcgggccct  ggggctgttt  ttaccatgtt  tgttttttgaa gctcaggtgt      1560
ctcacgtctg  ggctgcacca  ggcgaagaga  gaaattaaag  atttgaggtt  tttccagaag      1620
ctttgtctgc  ctctcgggag  gaaggccgtg  gggctgggac  cctgtggtgg  gcaagtgggt      1680
ggagtctggc  agctgcccac  agagggccga  gggtcacccg  tcggccgccg  ccaccccagg      1740
cgaggccgga  ggaaggatca  tctgagacgc  aggaggcatc  tgctggagca  gcaatttccc      1800
aatttattga  aagtgatcgc  tttgcaagga  tgtctaagct  aatcccgtca  cagaaaggaa      1860
acgcacaggc  g                                                             1871
```

```
        <210> 890
        <211> 379
        <212> DNA
        <213> Homo sapiens


        <400> 890
ttagccacaa  tggccgccaa  cagacctagc  ttggctatca  atttagccac  accaaacaca       60
tcccaactgg  acacaggcac  agagttccct  gccctggata  tcaagctggg  cacagccaga      120
gacttgtctt  cggtagggac  agtcaagtca  ggcaaaaccg  tgaacttggc  tacagcaggc      180
acaatcaagc  cgggcacagc  catgaatctg  actacagttg  gacaaccaa  gccagggatg      240
gtcatggatt  tgatagcctc  agaaccagac  aagctgggca  aagccatggc  tacaagaagc      300
acagccaaac  cagatatgac  cacagagggt  atagccatgg  attcagcaac  atcagaccca      360
gtcaagccgg  acatgtatt                                                      379
```

```
        <210> 891
        <211> 397
        <212> DNA
        <213> Homo sapiens


        <400> 891
tgctgcacaa  catgcgtgtg  tacggcacgt  gcacgctcgt  gctcatggcc  ctggtggtct       60
tcgtgggcgt  caagtatgtc  aacaagctgg  cgctggtctt  cctggcctgc  gtcgtgctgt      120
ccatcctggc  catctatgcc  ggcgtcatca  agtctgcctt  cgacccccg  gacatcccgg      180
tctgcctcct  ggggaaccgc  acgctgtcac  ggcgcagctt  cgatgcctgc  gtcaaggcct      240
acggcatcca  caacaactca  gccacctccg  cgctctgggg  cctcttctgc  aacggctccc      300
agcccagcgc  cgcctgtgac  gagtacttca  tccagaacaa  cgtcaccgaa  attcagggca      360
tcccgggcgc  ggccagtggt  gtcttcctgg  agaaccg                                397
```

```
        <210> 892
        <211> 398
        <212> DNA
        <213> Homo sapiens


        <400> 892
cctgtccgag  tccctgctcc  tggtcattgc  tgacctgctc  ttctgccggg  acttcacggt       60
tcagagcccc  cggaggagca  ctgtggactc  ggcagaggac  gtccactccc  tggacagctg      120
tgaatacatc  tgggaggttg  gtgtgggctt  cgctcactcc  ccccagccta  actacatcca      180
cgatatgaac  cggatggagc  tgctgaaact  gctgctgaca  tgcttctccg  aggccatgta      240
```

```
cctgccccca gctccggaaa gtggcagcac caacccatgg gttcagttct tttgttccac     300
ggagaacaga catgccctgc ccctcttcac ctccctcctc aacaccgtgt gtgcctatga     360
ccctgtggaa tacgggatcc cctacaacca cctgtatt                            398
```

```
        <210> 893
        <211> 397
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 893
cctcggggaa ggtgatgtat ttcagctccc tcttccccta cgtggtgctg gcctgcttcc     60
tggtccgggg gctgttgctg cgagggggcag ttgatggcat cctacacatg ttcactccca    120
agctggacaa gatgctggac ccccaggtgt ggcgggaggc agctacccag gtcttctctg     180
ccttgggcct gggctttggt ggtgtcattg ccttctccag ctacaataag caggacaaca     240
actgccactt cgatgccgcc ctggtgtcct tcatcaactt cttcacgtca gtgttggcca     300
ccctcgtggt gtttgctgtg ctgggcttca aggccaacat catgaatgag aagtgtgtgg     360
tcgagaatgc tgagaaaatc ctagggtacc gtgtatt                             397
```

```
        <210> 894
        <211> 380
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 894
cggccaccct gccactcact ctcatcgtca tccttgagaa catcgctgtg gcctggattt     60
atggaaccaa gaagttcatg caggagctga cggagatgct gggcttccgc ccctaccgct    120
tctatttcta catgtggaag ttcgtgtctc ctctatgcat ggctgtgctc accacagcca    180
gcatcatcca gctggggggtc acgccccgg gctacagcgc ctggatcaag gaggaggctg     240
ccgagcgcta cctgtatttc cccaactggg ccatggcacc cctgatcacc ctcatcgtcg    300
tggcgacgct gcccatccct gtggtgttcg tcctgcggca cttccaccta atctgtgatg    360
gctccaacac cccatgtatt                                                380
```

```
        <210> 895
        <211> 389
        <212> DNA
        <213> Homo sapiens
```

```
        <220>
        <221> misc_feature
        <222> (1)...(389)
        <223> n = a,t,c or g
```

```
        <400> 895
ncatgaagat gtttgtggct catgggttct atgctgccaa attcgtagtg gccattgggt     60
cggttgcagg actgacagtc agcttgctgg ggtccctctt cccgatgccg agggtcattt    120
atgccatggc tggtgacggg ctccttttca ggttcctggc tcacgtcagc tcctacacag    180
agacaccagt ggtgcctgc atcgtgtcgg ggttcctggc agcgctcctc gcactgttgg     240
tcagcttgag agacctgata gagatgatgt ctatcggcac gctcctggcc tacaccttgg    300
tctctgtctg tgtcttgctc cttcgacacc accctgagag tgacattgat ggttttgtca    360
agttcttgtc tgaggagcac acgtgtagt                                      389
```

533

```
<210> 896
<211> 415
<212> DNA
<213> Homo sapiens


<400> 896
cagcagccca cctggagtgc atttttaggt ttgaattgag agaacttgac cctgaggcac      60
acacctacat tctgttaaac aaactgggac ctgtgccctt tgaagggtta gaagagagcc     120
caaatgggcc aaagatgggc ctcctgatga tgattctagg ccaaatattc ctgaatggca     180
accaagccaa ggaggctgag atttgggaaa tgctctggag gatggggggtg cagcgggaaa     240
ggaggctttc catttttggg aacccaaaga gacttctgtc tgtggagttt gtatggcagc     300
gttacttaga ctacaggcca gtaactgact gtaaaccagt ggagtatgag tttttctggg     360
gcccaagatc ccacctagaa accaccaaga tgaaaattct gaagttcatg gcgaa          415



<210> 897
<211> 428
<212> DNA
<213> Homo sapiens


<400> 897
aagctcggag ctccagggaa ctggagatca tcctcaacca tcgagatgac cacagtgaag      60
agcttgaccc tcagaagtac catgacctgg ccaagttgaa ggtggcaatc aaataccacc     120
agaaagagtt tgttgctcag cccaactgcc aacagttgct tgccaccctg tggtatgatg     180
gcttccctgg atggcggcgg aaacactggg tagtcaagct tctaacctgc atgaccattg     240
ggttcctgtt tcccatgctg tctatagcct acctgatctc acccaggagc aaccttgggc     300
tgttcatcaa gaaacccttt atcaagttta tctgccacac agcatcctat ttgaccttcc     360
tctctatgct tctcctggct tctcagcaca ttgtcaggac agaccttcat gtacaggggc     420
cctgtatt                                                               428



<210> 898
<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = a,t,c or g


<400> 898
ncttacaatg cacaatatct gcttcacatc cttgcccatc ctggcctata gtctactgga      60
acagcacatc aacattgaca ctctgacctc agatccccga ttgtatatga aaatttctgg     120
caatgccatg ctacagttgg gccccttctt atattggaca tttctggctg cctttgaagg     180
gacagtgttc ttctttggga cttactttct ttttcagact gcatccctag aagaaaatgg     240
aaaggtatac ggaaactgga cttttggaac cattgttttt acagtcttag tattcactgt     300
aaccctgaag cttgccttgg atacccgatt ctggacgtgg ataaatcact ttgtgatttg     360
gggttcttta gccttctatg tattttttctc attcttctgg ggaggaatta tttggccttt     420
tctcaagcaa cagagaatgg cgaa                                             444
```

```
        <210> 899
        <211> 436
        <212> DNA
        <213> Homo sapiens


        <400> 899
gggagagagg aacttcacat gcacgcaggg tggcaaggat tttactgcca gctcagacct      60
tctccagcaa caggtcttaa acagtgggtg gaagctgtac agggataccc aggatgggga     120
agcctttcaa ggtgaacaga atgatttcaa ctccagccaa ggtgggaaag acttttgcca     180
ccaacatggg ctgtttgagc accaaaaaac ccataatggg gagaggcctt atgagttcag     240
tgaatgtggg gaattgttta ggtacaactc caaccttatt aaatatcagc aaaatcatgc     300
tggagaaagg ccttatgagg gcactgaata tggaaagacc tttattagaa agtccaacct     360
agttcagcac cagaaaattc acagtgaagg ctttctttca aaaaggtctg acccccattga    420
acatcaggag tgtatt                                                     436




        <210> 900
        <211> 466
        <212> DNA
        <213> Homo sapiens


        <220>
        <221> misc_feature
        <222> (1)...(466)
        <223> n = a,t,c or g



        <400> 900
agtacgagtt acgtgcggct ganccgcacg gcctatgggc agattggaat gatccaggcc      60
ctgggaggct tctttactta ctttgtgatt ctggctgaga acggcttcct cccaattcac     120
ctgttgggcc tccgagagga ctgggatgac cgctggatca acgatgtgga agacagctac     180
gggcagcagt ggacctatga gcagaggaaa atcgtggagt tcacctgcca cacagccttc     240
ttcgtcagta tcgtgggggt gcagtgggcc gacttggtca tctgtaagac caggaggaat     300
tcggtcttcc agccggggat gaagaacaag atcttgatat ttggcctctt tgaagagaca     360
gccctggctg ctttcctttc ctactgccct ggaatgggtg ttgctcttaa gatgtatccc     420
ctcaaaccta cctggagggt ctgtgccttc ccctactctc ttctca                    466




        <210> 901
        <211> 412
        <212> DNA
        <213> Homo sapiens



        <400> 901
caagatctgg atcggcccca atgatgggat cacccagttt gataacatcc tttttgctgt      60
gctgactgtc ttccagtgcg tccccatgga agggtggttc gctgtgctgt caactgccaa     120
tgatgtctta ggagccccct ggaattggct gtacttcatc cccctcctca tcattggagc     180
cttctttgtt cccaccctag tcctgggagt gctttccggg gattttgcca aagagagaga     240
gagagtggag acccgaaggg ctttcatgaa gctgcggcgc cagcagcaga ttgagcgtga     300
gctgaatggc taccgtgtct ggatagccaa agcagaggaa gtcatgctcg ctgaagaaaa     360
tttgtatccc agtcacgcac ggccagtgaa tccgtaatca tggtcataga cc             412
```

```
<210> 902
<211> 1334
<212> DNA
<213> Homo sapiens


<400> 902
ggaattccgg cgggctggac gccgagtgcg gccggcccct cttcgccacc tactcgggcc     60
tctggaggaa gtgctacttc ctgggcatcg accgggacat cgacaccctc atcctgaaag    120
gtattgcgca gcgatgcacg gccatcaagt accacttttc tcagcccatc cgcttgcgaa    180
acattccttt taatttaacc aagaccatac agcaagatga gtggcacctg cttcatttaa    240
gaagaatcac tgctggcttc ctcggcatgg ccgtagccgt ccttctctgc ggctgcattg    300
tggccacagt cagtttcttc tgggaggaga gcttgaccca gcacgtggct ggactcctgt    360
tcctcatgac agggatattt tgcaccattt ccctctgtac ttatgccgcc agtatctcgt    420
atgatttgaa ccggctccca aagctaattt atagcctgcc tgctgatgtg aacatggtt     480
acagctggtc catcttttgc gcctggtgca gtttaggctt tattgtggca gctggaggtc    540
tctgcatcgc ttatccgttt attagccgga ccaagattgc acagctaaag tctggcagag    600
actccacggt atgactgtcc tcactgggcc tgtccacagt gcgagcgact cctgagggga    660
acagcgcgga gttcaggagt ccaagcacaa agcggtcttt tacattccaa cctgttgcct    720
gccagccctt tctggattac tgatagaaaa tcatgcaaaa cctcccaacc tttctaagga    780
caagactact gtggattcaa gtgctttaat gactatttat gcgttgactg tgagaatagg    840
gagcagtgcc atgggacatt tctaggtgta gagaaagaag aaactgcaat ggaaaaattt    900
gtatgatttc catttatttc agaaagtttg tatgtaacaa ttacccgaga gtcatttcta    960
cttgcaaaag gattcgtaac aaagcgagta taattttctt gtcattgtat catgcttgtt   1020
aaattttaat gcagcatctt cagaacttgt cctgatggtg tcttattgtg tcagcaccaa   1080
atatttgtgc attatttgtg gacgttcctt gtcacaggaa gattcttctt ctgttgcctt   1140
attgtttttt tttttttaag tctcttctct gtctttgtac tggaatcgaa atcataagat   1200
aaacagatca aacgtgctta agagctaact cgtgacacta tgcagtattg tttgaagacc   1260
tgttgttcaa cctctgtctc tttatgttaa ctggatttct gcattaaaag actgcccct    1320
tgttaaaaaa aaaa                                                      1334
```

```
<210> 903
<211> 701
<212> DNA
<213> Homo sapiens


<400> 903
acctgggcac cgtgtcctat ggcgccgaca cgatggatga gatccagagc catgtcaggg     60
actcctactc acagatgcag tctcaagctg gtggaaacaa tactggttca actccactaa    120
gaaaagccca atcttcagct cccaaagtta ggaaaagtgt cagtagtcga atccatgaag    180
ccgtgaaagc catcgtgctg tgtcacaacg tgacccccgt gtatgagtct cgggccggcg    240
ttactgagga gactgagttc gcagaggctg accaagactt cagtgatgag aatcgcacct    300
accaggcttc cagcccggat gaggtcgctc tggtgcagtg gacagagagt gtgggcctca    360
cgctggtcag cagggacctc acctccatgc agctgaagac ccccagtggc caggtcctca    420
gcttctgcat tctgcagctg tttcccttca cctccgagag caagcggatg ggcgtcatcg    480
tcagggatga atccacggca gaaatcacat tctacatgaa gggcgctgac gtggccatgt    540
ctcctatcgt gcagtataat gactggctgg aagaggagtg cggaaacatg gctcgcgaag    600
gactgcggac cctcgtggtt gcaaagaagg cgttgacaga ggagcagtac caggactttg    660
agagccgata cactcaagcc aagctgagca tgcacacgaa a                        701
```

```
<210> 904
<211> 546
<212> DNA
```

<213> Homo sapiens

<400> 904
tcttcggggg cgtccttatg atgctggctg ggactcctgg gcatcctgtt cttcctgggc   60
caggccctca tggccatgct ggtgtacgtg tggagccgcc gcagccctcg ggtgagggtc   120
aacttcttcg gcctgctcac tttccaggca ccgttcctgc cttgggcgct catgggcttc   180
tcgctgctgc tgggcaactc catcctcgtg gacctgctgg ggattgcggt gggccatatc   240
tactacttcc tggaggacgt cttccccaac cagcctggga ggcaagaggc tcctgcagac   300
ccctgggctt tcctaaagct gctcctggga tgcccctgca gaagacccca attaacctgc   360
ccctccctga ggaacagcca ggaccccatc tgccaccccc gcagcagtga cccccaccca   420
ggggccaggc ctaagaggct tctggcagct tccatcctac ccatgacccc tacttggggc   480
agaaaaaacc catcctaaag gctgggccca tgcaagggcc cacctgaata aacagaatga   540
gctgca   546

<210> 905
<211> 2642
<212> DNA
<213> Homo sapiens

<400> 905
gacaagaagt ggactgagct ggataccaac cagcaccgga cccatgccat gaggctcctg   60
gatggcttgg aagtcactgc cagggagaag agactcaagg tggctcgagc aattctctat   120
gttgctcaag gcacgtttgg ggagtgcagc tcggaggcag aggtgcagtc ctggatgcgc   180
tacaacatct ttctcctcct ggaggtgggc acgttcaatg ctttggtgga gcttctgaac   240
atggaaatag acaacagtgc cgcctgcagc agtgctgtga ggaagcctgc catctccctg   300
gctgacagca cagacctcag ggtcctgctc aacatcatgt acctgatagt ggagaccgtt   360
catcaggagt gtgagggtga caaggctgag tggaggacca tgcggcagac cttcagagcc   420
gagctgggct ccccgctgta caacaatgag ccatttgcca tcatgctgtt tgggatggtg   480
accaaatttt gcagtggtca cgcccctcac tttcccatga agaaagttct cttgctgctc   540
tggaagacag tattgtgcac gctaggcggc tttgaggagc tgcagagcat gaaggctgag   600
aagcgcagca tcctgggcct ccccccgctt cctgaggaca gcatcaaagt gattcgcaac   660
atgagagcag cctctccacc agcatctgct tcagacttga ttgagcagca gcagaaacgg   720
ggccgccgag agcacaaggc tctgataaag caggacaacc tagatgcctt caacgacgcg   780
gatccctaca aggctgatga ctctcgagaa gaggaagagg agaatgatga tgacaacagt   840
ctggaggggg agacgtttcc cctggaacgg gatgaagtga tgcctccccc gctacagcac   900
ccacagactg acaggctgac ttgccccaaa gggctcccgt gggctcccaa ggtcagagag   960
aaagacattg agatgttcct tgagtccagc cgcagcaaat ttataggtta cactctaggc   1020
agtgacacga acacagtggt ggggctgccc aggccaatcc acgaaagcat caagactctg   1080
aaacagcaca gtacacgtc gattgcagag gtccaggcac agatggagga ggaataccc   1140
cgctcccctc tctcaggggg agaagaagaa gttgagcaag tccctgcaga aaccctctac   1200
caaggcttgc tccccagcct gcctcagtat atgattgccc tcctgaagat cctgttggct   1260
gcagcaccca cctcaaaagc caaaacagac tcaatcaaca tcctagcgga cgtcttgcct   1320
gaggagatgc ccaccacagt gttgcagagc atgaagctgg gggtggatgt aaaccgccac   1380
aaagaggtca ttgttaaggc catttctgct gtcctgctgc tgctgctcaa gcactttaag   1440
ttgaaccatg tctaccagtt tgaatacatg gcccagcacc tggtgtttgc caactgcatt   1500
cctttgatcc taaagttctt caatcaaaac atcatgtcct acatcactgc caagaacagc   1560
atttctgtcc tggattaccc tcactgcgtg gtgcatgagc tgccagagct gacggcggag   1620
agtttggaag caggtgacag taaccaattt tgctggagga acctctttc ttgtatcaat   1680
ctgcttcgga tcttgaacaa gctgacaaag tggaagcatt caaggacaat gatgctggtg   1740
gtgttcaagt cagcccccat cttgaagcgg gccctaaagg tgaaacaagc catgatgcag   1800
ctctatgtgc tgaagctgct caaggtacag accaaatact tggggcggca gtggcgaaag   1860
agcaacatga agaccatgtc tgccatctac cagaaggtgc ggcatcggct gaacgacgac   1920
tgggcatacg gcaatgatct tgatgcccgg ccttgggact ccaggcagag ggagtgtgcc   1980
cttcgtgcca acattgaacg cttcaacgcc cggcgctatg accgggccca cagcaaccct   2040
gacttcctgc cagtggacaa ctgcctgcag agtgtcctgg ccaacgggt ggacctccct   2100

537

```
gaggactttc agatgaacta tgacctctgg ttagaaaggg aggtcttctc caagcccatt   2160
tcctgggaag agctgctgca gtgaggctgt tggttagggg actgaaatgg agagaaaaga   2220
tgatctgaag gtacctgtgg gactgtccta gttcattgct gcagtgctcc catcccccac   2280
caggtggcag cacagcccca ctgtgtcttc cgcagtctgt cctgggcttg ggtgagccca   2340
gcttgacctc cccttggttc ccagggtcct gctccgaagc agtcatctct gcctgagatc   2400
cattcttcct ttacttcccc caccctcctc tcttggatat ggttggtttt ggctcatttc   2460
acaatcagcc caaggctggg aaagctggaa tgggatggga acccctccgc cgtgcatctg   2520
aatttcaggg gtcatgctga tgcctctcga gacatacaaa tccttgcttt gtcagcttgc   2580
aaaggaggag agtttaggat tagggccagg gccagaaagt cggtatcttg gttgtgctct   2640
gg                                                                 2642
```

```
        <210> 906
        <211> 2053
        <212> DNA
        <213> Homo sapiens


        <400> 906
tttttttttt taatttctcg agacagggtc tctgtcaccc aagctggagt gcagtgacac     60
aatcaaggct cactgtagcc tcaatcttca gggctccagg gatcctccca tctcagtctc    120
cttgggagct gggagctagg catgttccac catgcctggc taatttttta attttttttgt   180
agagatgggg tcttgtcatg ttgcccatgt cggtctcaaa ctcctgggct caagcgatac    240
tcccaccttg gcttccagt attgggatta caggtgtgag ccaccatgtc tggcttgctt     300
ctctttttgt attctaaaat tcaaaggcct aagtatcaaa tccctaaatc tccaaatact    360
gtcacagata aagactcaat aataaactcc ctccgaaagt ttagacaggc tcaggtgaga    420
gacttgtttc aaggggttat aaaaagaaac accagtgctc tgcagaagaa tcagttttta    480
attttttaa tgtatctatt taatggaata agttgatcat agatttgtaa accaaaaggt     540
aatttctcaa gtatttggaa ataagaaaaa gcctccctac caccaacctt ttggtcatct    600
ttctcattct cttacaatca tcctaatccc ctagtacacc cttaccatat atcaataagg    660
gcaccataat attatgcaaa gaacagatat atatgcctga tctcttatta gacttgcacc    720
agagactgtt gaaccactcc aggcatgaac tccaaagctg aggcacactg accaagcccc    780
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538

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        <212> DNA
        <213> Homo sapiens


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        <212> DNA
        <213> Homo sapiens


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          <211> 737
          <212> DNA
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          <211> 5345
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<212> DNA
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<223> n = a,t,c or g

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<212> DNA
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542

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    <213> Homo sapiens


    <400> 914
tcgaagcttc ctctaagttc attctctttt atccttcccc agaagaaacg tgtctgaaat      60
atggaatgta tcattgccaa acaaaaagaa tttgtgaaaa cttcttagtt gcataactag     120
gaagactaga gactattgac tgtcatacat acttttacta aatatgagta ctgttgtatt     180
tttactattt ataaatatta aaattacata ctattaactt gcatgttttt aaacaacata     240
taaatggtat cacattgtat ttttttgcaac ttgctttttt cacttctgac tgtgttttta     300
agacttctcc atgttgacac atgtcattta ttcattcgtt ttaattgctg taagatattc     360
ttttgtcagg atatactaca acttatatat ctgttattct ttctgtggac atttaaattg     420
ttttcaggtt ttacattaaa aataatacag cagtgagcat tcttggtcat atctcttttg     480
aacatgtgtg agcttttctg ttctttacat aagaggagga atgattggac cttagagtac     540
atcttcagta ttattaggga attccaaaca gctttccaaa gtcgctatat gaatttacac     600
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ccacactagc atcataagcc                                         620
```

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        <210> 915
        <211> 788
        <212> DNA
        <213> Homo sapiens


        <400> 915
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gaaacatgct aacatgctta tacaatactt gctgtcctgc cttctgctct cagctgagct    120
ctctgaaaca tgctaacatg cttatacaat acttgctgtc ctgccttctc ctctcagctg    180
agctctctgg aacatgcttt ttatacaata cttgctgccc tgccttcttc tctcagctga    240
gctctctgga acattctttt tatacaatac ttgccatctg catgtcccat gttgccactc    300
cttggttccc acaggccctc cgtcattgag ttcacatttt cagtctcgtg gtctctgtgc    360
tccctgtgcc tccatagcag attctgggat agcagattct gggggcaaca atctcaattt    420
cgttggtgct ggaggagtgg cctcagggca tctgctgtca cctctgctgg ggccccagtc    480
cagcccgtgc cctcactgtc cccgcggtgg ccgcctgcct tcccagcctc ttcccctctg    540
cagtgcgcgc tcttgggcgc aagaagcctt gagacttccc tcctccgcac agctgtgccc    600
gtgccatccc cttccacgag gcctgggccc cgtctcaccc tctggactgc tggccaacat    660
ctcgtacagg cacaattggc tgctgggctc ctggccgggt tggctcattt gggggggggaa    720
aaaccggggg ggtttaaatt cattttggc ctaattccga gccagggagg ttgacttcag    780
ggagaaca                                                             788



        <210> 916
        <211> 758
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(758)
        <223> n = a,t,c or g


        <400> 916
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taactcaaat gtctaacaac agatgaacaa ataaactgga aaaggcatac gatggaaccc    180
ttctcagcaa tcaacaagag aaacaatcac tgcaggtata cacagctgca tggatgaatc    240
tcaagaacat tacacggagc gaggaagcca gacagagggc tacgtactgc aggattccag    300
agatatgaaa tcccaggacg ggaaaaactc gcccaagtga cagaaagcag atcggcggtt    360
gcctaactcc atgctctcat ttctggttgt tttccagttg gttctcttaa ggttttcagg    420
aagacattca catcatcagc taataacaat tactttttcct cttttccaat ggctgtattt    480
tttctttttc atgtttttttt gcactggctg gaaatttttag gacaatatga gatgacagtg    540
gtgagagtgt gtaggtttgt cgtgactgtg gcctttggct gctgcctata ttcatctaga    600
ctccaggcca gcagctcgcc agctcnaccg tgccgctcat gtccaggccg tggtccttgg    660
agtggtcact gctgcgaggg aaggagcccc caacagctcc cgtgaacctg accctggaga    720
gggaggctgt gctctaaacc cctctcctgc ggcacgag                            758



        <210> 917
        <211> 2709
        <212> DNA
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544

<213> Homo sapiens

<400> 917
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tttccattgc cactgcagaa tgaagccagt gcacatggta ttagtcatca gccagaactt    60
cctgttctgt gggtctgggg tcaccagctg agatgtcacc tgctttatttt ctggctttgg   120
cctgtggtct gtgataccca tcctccttga tgttctgcag aatggcactt gactgctggg   180
catgcatgaa gttaagggca agaaacagta tgccatgtgt tctgtaccat catgtgtctc   240
ttcttccttc tgggcccttc tactggtgaa ctttcatcaa gatctgcgcc atgccgtgtc   300
actatcaagc cattaagttt tgtctgggtt gctgtcagcc ccagttggct tcctggtcaa   360
caaggacctc aagaactgcc tgtggaccga ggcccctac cagtgcatga gacacacacc   420
taccctcccc agctttccag gaaccctact ggctgccaga ctgatgggcg ggctggtatg   480
tgtggacatg tgttcactgt cattatgctg tggctccagg tgagggtgag gactgggcct   540
atatagaatc cagataccat tgtcaacttc ccttattccc gtctaagatg tgagcagagt   600
gccatagtag gggtctgggg aagaggtatt tctgatttgt gggcctctgc ttgcttgact   660
tcaggtcact tatacttctt attttgcttg cctgccttca tcctcattt cctccctctc   720
attcttcttt cctccctccc tttcctggta gcctcctttc ctccccttct gccttcccct   780
tccttctttc cttattcttt tttattttgt ttaaatagta ccacagagaa aacaactgaa   840
aaaccacatt tttctacata cagctgggga ggtagctgag aacttggcac tgcgcacaca   900
tactaggttg aaagagagtt gaggaaacca gaaggccaag tggatctgct ggcaaaccct   960
gaacctgtct cctgcgcttg ctctacagtt ctgaagttga aaatcctttt catgcctagc  1020
atctgcttga gttataaacc ccaaggcagc catgtcatag actagtgttt actcttgttt  1080
tgactttgtt ttaatgcttc ctaagaccca agtggcctcc tgctgtttcc tcctttgtgg  1140
tagcctctgg ccatctggga cctcaatccc cagcttttcc acttttcagc agtcctttgg  1200
ctctttttgg cttcttacct tcaaattagg ccccaggagt gggcttagt cttccaatat  1260
ggagcatctc aagcttctcc tgggggatgg ggattgggat gggcagaatc tgttttggat  1320
ctccgggtta tttccagtgg gtgtaaaagc agagctgggc ctttccctct cttatccctg  1380
agggtgggta agaaggactg tatctacacc tgttcttccc taccttctct tttgttaggg  1440
aggcctcatt ctaagttcct caagagagtc cttggcttaa agctgtagca agggtgtgct  1500
aggtggggga tttggagcaa aaccgtcgag taggcatgat actggtatgg agtgggcctg  1560
caaaatcaga cagaaatggc ttgagaagcc gcaggggggag catgcctgtc tctcagtgat  1620
agagtatggg agggacctcc ctagcttgga aaatgagaat tgaaggggtt atgaacaaat  1680
aggatgccta gttgaggatg ttcccaaagt tttgtccaat cttatcatta gtagatttta  1740
taagccacag agacaaacca gaaacggaat aatgttactt tggatgcttt atttttttgt  1800
tctaggtgtg gctttgtaca tgcagaagaa tgctatatgc tgcacatttt gcctttaaag  1860
tcttacgact ttccccattt tagtctaatg ggaagataca gatgtgcaag tctgcttttt  1920
tgtttttttgt tattatttttt tttttttttgg ctctgggtta gggacatttt caaacttgcc  1980
caaaaggga gaggatggtc cttggacccc catgtgtcca tcacctagct gcatcactta  2040
tcagctatgg tcaacctggt ttcatcgta tctctttttt ttcacctgta ttgtttattg  2100
aaaatccaag acactatgcc aatgcaaccg tgactacttt gggagattgg tagtctcttt  2160
tgatggtgat agtgatgggg tgcactatca taatcacatc aaggtctgct ttttgctttt  2220
aatgttaact aatgaagttc ccagagatgg gcccttaaga aaatgtgttt ttaaggaatt  2280
aacaaaggag tctccaaaaa ggaaatggag aggggatgct tcccttccc cttgccatct  2340
accaaaacca ggagagagac tgttctgttg taaaactctt tcaaaaattc tgatatggta  2400
aggtacttga gacccttcac cagaatgtca atctttttt ctgtgtaaca tggaaacttg  2460
tgtgaccatt agcattgtta tcagcttgta ctggtctcat aactctggtt ttggaagaat  2520
aatttggaaa ttgttgctgt gttctgtgaa aataacctcc ccaaaataat tagtaactgg  2580
ttgttctact tggtaatttg acaccctgtt aataacgcaa ttatttctgt gttcttaaac  2640
agtataaata gttgtaagtt tgcatgcatg atggaaaaat aaaaacctgt atctctgtta  2700
aaaaaaaaa                                                          2709
```


<210> 918
<211> 1327
<212> DNA
<213> Homo sapiens

<220>

545

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<221> misc_feature
<222> (1)...(1327)
<223> n = a,t,c or g


<400> 918
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tgtgtactcg ctgagtgtgg accctaacac ctggcagact ctgctccatg agaggcacct     120
gcggcagcca gaacacaaag tcctgcagca gctgcgcagc cgcggggaca acgtgtacgt     180
ggtgactgag gtgctgcaga cacagaagga ggtggaagtc acgcgcaccc acaagcggga     240
gggctcgggc cggttttccc tgcccggagc cacgtgcttg cagggtgagg gccagggcca     300
tctgagccag aagaagacgg tcaccatccc ctcaggcagc accctcgcat tccgggtggc     360
ccagctggtt attgactctg acttggacgt ccttctcttc ccggataaga agcagaggac     420
cttccagcca cccgcgacag gccacaagcg ttccacgagc gaaggcgcct ggccacagct     480
gccctctggc ctctccatga tgaggtgcct ccacaacttc ctgacagatg gggtccctgc     540
ggaggggggcg ttcactgaag acttccaggg cctacgggca gaggtggaga ccatctccaa     600
ggaactggag cttttggaca gagagctgtg ccagctggct gctggagggc ctggaggggg     660
tgctgcggga ccagctggcc ctgcgagcct tggaggaggc gctggagcag ggccagagcc     720
ttgggccggt ggagcccctg gacggtccag caggtgctgt cctggagtgc ctggtgttgt     780
cctccggaat gctggtgccg gaactcgcta tccctgttgt ctacctgctg ggggcactga     840
ccatgctgag tgaaacgcag cacaagctgc tggcggaggc gctggagtcg cagaccctgt     900
tggggccgct cgagctggtg ggcagcctct tggagcagag tgccccgtgg caggagcgca     960
gcaccatgtc cctgccccc gggctcctgg ggaacagctg gggcgaagga gcaccggcct    1020
gggtcttgct ggacgagtgt ggcctagagc tgggggagga cactccccac gtgtgctggg    1080
agccgcaggc ccagggccgc atgtgtgcac tctacgcctc cctggcactg ctatcaggac    1140
tgagccagga gccccactag cctgtgcccg ggcatggcct ggcagctctc cagcagggca    1200
gagtgtttgc ccaccagctg ctagccctag gaaggccagg agcccagtag ccatgtggcc    1260
agtctaccat ggggcccagg agttggggaa acacaataaa ggtggcatac gaaggaaaaa    1320
aaaaaaa                                                              1327



<210> 919
<211> 1463
<212> DNA
<213> Homo sapiens


<400> 919
tatttaatat tttacttctg atttgactca agtgtttaaa gtgtttattg atggtgatgc      60
aagaagtttt cctatcttac gtttttattt aggtagtgga ggtatatggc cttctcgcct     120
tgggaatgtc cctgtggaat caactggtag tccctgttct tttcatggtt ttctggctcg     180
tcttatttgc tcttcagatt tactcctatt tcagtactcg agatcagcct gcatcacgtg     240
agaggcttct tttccttttt ctgacaagta ttgcggaatg ctgcagcact ccttactctc     300
ttttgggttt ggtcttcacg gtttcttttg ttgccttggg tgttctcaca ctctgcaagt     360
tttacttgca gggttatcga gctttcatga atgatcctgc catgaatcgg ggcatgacag     420
aaggagtaac gctgttaatc ctggcagtgc agactgggct gatagaactg caggttgttc     480
atcgggcatt cttgctcagt attatccttt tcattgtcgt agcttctatc ctacagtcta     540
tgttagaaat tgcagatcct attgttttgg cactgggagc atctagagac aagagcttgt     600
ggaaacactt ccgtgctgta agcctttgtt tattttatt ggtattccct gcttatatgg     660
cttatatgat ttgccagttt ttccacatgg atttttggct tcttatcatt atttccagca     720
gcattcttac ctctcttcag gttctgggaa cactttttat ttatgtctta tttatggttg     780
aggaattcag aaaagagcca gtggaaaaca tggatgatgt catctactat gtgaatggca     840
cttaccgcct gctggagttt cttgtggccc tctgtgtggt ggcctatggc gtctcagaga     900
ccatctttgg agaatggaca gtgatgggct caatgatcat cttcattcat tcctactata     960
acgtgtggct tcgggcccag ctggggtgga gagctttct tctccgcagg gatgctgtga    1020
ataagattaa atcgttaccc attgctacga aagagcagct tgagaaacac aatgatattt    1080
gtgccatctg ttatcaggac atgaaatctg ctgtgatcac gccttgcagt catttttcc    1140
atgcaggctg tcttaagaaa tggctgtatg tccaggagac ctgccctctg tgccactgcc    1200
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atctgaaaaa ctcctcccag cttccaggat taggaactga gccagttcta cagcctcatg    1260
ctggagctga gcaaaacgtc atgtttcagg aaggtactga acccccaggc caggagcata    1320
ctccagggac caggatacag gaaggttcca gggacaataa tgagtacatt gccagacgac    1380
cagataacca ggaaggggct tttgacccca aagaatatcc tcacagtgcg aaagatgaag    1440
cacatcctgt tgaatcagcc tag                                            1463
```

```
        <210> 920
        <211> 761
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 920
ctcacacagc tcccggccag gacacccgcc atggtcctcc ctctgccctg gctctctcgg      60
taccatttcc ttcgcctcct tctgccctcc tggtccttgg caccccaggg ctcccatggg     120
tgctgctccc aaaacccaa agcaagcatg gaagagcaga ccaactccag aggaaatggg      180
aagatgacgt ccctcccag ggggccctggg acccaccgca cagctgagct ggcccgagct     240
gaagagttgt tggagcagca gctggagctg taccaggccc tccttgaagg gcaggaggga     300
gcctgggagg cccaagccct ggtgctcaag atccacaagc tgaaggaaca gatgaggagg      360
caccaagaga gccttggagg aggtgcctaa gtttccccca gtgcccacag caccctccgg      420
cactgaaaat actcgcacca cccaccagga gccttgggat cataaacacc ccagcgtctt      480
cccaggccag agaaagtgga agagaccacc acccgcagac ccttggcagg cggggggga      540
gccagggctc tgcagactta ctcccattcc cctttgatat cacagcacgc caagcaccca      600
ggttttataa gaattcaccc tggaccatgc cctaacataa actgcccaa atacacaaag       660
ggacgaactt cttatggata ggggaagcca gggctctcag tctcaaacaa ttcctttaat      720
tcccgccggg gccgacccga cctatagaac tcccccgccc c                         761
```

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        <210> 921
        <211> 1225
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 921
ggaattccgc gttagatgat agatcgagca gcctcaggcc gctggcgttg acgaaaacgc      60
cgcgatccag cgcatgtagt tcgttgtggt ctaagtgcag ggcgcgcagc tggaagaggg     120
gcgccaacca gccggggcgc atgcgctgga gcgcgttgtg gctcaggtcg aggtccgcag      180
taccggcagg taactcggct ggcacgtcct gcagccctag gccagtgcag cttagcaggt     240
cggcagcgca gatacatttg taggggcagt tgtggagcgc acggggcggg aaaccctcgg     300
agtccggggt gcctaaccca acgcgcagca tgcagagcag tgtccccagc agcaccaacc     360
aggtcatggc ggcgaccacc agggacagta cagagcagct ctgtgcaggt tgcagttcca     420
ggactcaccc tcttctgctc tagtgcgaca tgggtggcac cggatggccc ttgccgagga     480
ggcacggcgg gttcttgcca gccgacggcc cctactctcc ggttccagg ttgtgaggcg      540
gtgcggcact cttagccgcg ctcccttcgg cttcgctagc cctctccaag cgagttcctg     600
atcggctcct aaatactccc cccaggggcg gggcccgggc tcctattggt tccgtttga      660
ggaggcgggg cggctacatc cctttgtgcc caatggcccc gcatgaccgc cagatgggga     720
gcaaggccaa ccccaaagtc cccgtcagcc tttggctggc agctctccgc cgctcgtttt     780
tcctcgggga gtaaaagggg gagtctggaa gaatgtctcc aagctgctgt tagtgtttat     840
ttgaagtgac tttgaaggac tgataatatt atggggcagg cagactctca ctatcttaag      900
gtggttcgcc tgagccttct taaagtggta ccccaggccg ggcgcggtgg ctcacgcctg     960
taatcccagc actttgggaa gccaaggcag gtggatcacc tgaggtcagg aattcgagac    1020
cagcctggcc aacctggtga aaccctgtct ctactaaaaa tacaacaaca attagccggg    1080
cgtggtggtg ggcgtctgca attccagcta ctcgggaggc taaagcagga gaatcacttg    1140
aacccgggag gtggaggttg cagtgagccg agatcgtgcc atcgcactcc agcctgggca    1200
acagagcgag actcgtctca agaaa                                         1225
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        <210> 922
        <211> 1589
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1589)
        <223> n = a,t,c or g


        <400> 922
ttttttttta accatttaca aatatgttta atagcagcat ttctttaaag aaaaacaaag      60
ttcaaatgcc caataataat tatgtttaac acttggtaca catataaata gacaaaaggc     120
tgcggagaac actggattta aataaaggtg ttatgggtat aattaactat aatttatttt     180
atgaataaat aagaaaaaag tccctggcta taaaggatag tggaggttta tttcccaata     240
ttcttccatt tggactgaac ccctgccaac taagcagaca tcccactatt acaccaaaaa     300
gactgctctc cctgcgagca attacaatac atgacaccac taggcccaat ggctcagagg     360
gaagagtggc ctgtggctct tcaatcttta tccaaacctg gttctagctt caggagcctt     420
tggtcacctg agactttta tttattaatt tttatgagac ggagtattgc tatgttgccc     480
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ttctggctgg tttgaacctt aaatgccacc acccaccaga gaggaggctc tcactagatt     660
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tagaataagg ccacctagga atgttcttaa cttttccatt cagctttttgg ctgatatatg     780
aaaatacaaa taaatacatc ctttccccag gtgcaaggct ccaaccagca gctccaaggg     840
cttggtctac agtgctcaga aagacgccct gccttaaaag tcaggctagt gccctagctc     900
cggtggcctc tgcaaatgag gccttgacag tcgtcagtgg acagacacat agtatccagc     960
acccaggtct tgggccttcc tgcttccag agtttcacag gtaggacgca tgtgagggga    1020
gcagtccgta cttctgttgg aggatggctg tagtactttc cagggcacag cctggacgaa    1080
tgatgccaaa ctttccgggc acagacaaat caaccacagt tgagccaagg cgacactcgg    1140
ggctctggcc atccccaatt tgtcccccat caataaccaa ggacaactga ggccagagat    1200
cctggaactc ctcgacattc agagaactgg cctgggagct gaggttggca ctagtgagag    1260
caagcggacc ctcaaacatc tgagccaagt cttgcataaa agcatgatca ggaatccgaa    1320
tgcctacaag aggcgtaaaa gggtttaggt ccttgttgag ctcctccgag cgttccatca    1380
ccagggtcac tggtcctggc agtaggtctt tcaggagccc ctcaggtact ctcacacggc    1440
agtatctgta gacgtcggcc acgcggccga ggcatacggc cagaggcttg gcctcgctgc    1500
gacccttgag gcggtacaca gcgcgcagag ccgccgagca gctcgccggn nttccccgcn    1560
cttccgangn tctcaaaggg gnctcttag                                      1589



        <210> 923
        <211> 1071
        <212> DNA
        <213> Homo sapiens


        <400> 923
tgcaatggtg tgatctaggc tcactgcaac ctctttctct tttgttcaag tggttctcct      60
gcctcagcct cctgagtagc taggattata ggcacacacc accacacctg gctaattttt     120
ttggtaattt ttagtggatt cggtgtttca ccatgttggc cgggcttgtc ttgaactcct     180
gacctcaggt gatccgccca cctcagcctc ccaaagtgct aagtgctggg attacagacc     240
cttaaacaat attaagtagt aattagtaaa ctatattttc tttttctttc tttttttttt     300
tttctgagat ggagtttcac tcttgttgcc caggctggag tgcaatggca tgatcttggc     360
tctcactgca acctccacct cccaggttca agtgattctc ctgcctcagt ctccctggta     420
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gctgggatta caggtgttca ccaccacgcc aggctaattt ttgtattttt agtagagaag    480
gggtttcacc atgttggcca ggctggtctc gaactcctaa cctcaggtga tccaccccgcc    540
tcagcctccc aaagtgctag gattacaggt gtgagccact gtacctggcc aatagttcac    600
ttttattgtt gagtagtatt tcatggtatg aatatactgt agtttgttta accattcacc    660
cattgaagga catctgggtt gtttacagtt tgggaccgta atgagtaaag ctgctgttag    720
tttctttgtg aacacagtct tcatttcttc tggataactg cccagtagtg cagttgttag    780
gtcatatgat aattgcatat ttaaagaaac tgctgaactg tttttcctggg tgagtcagac    840
tgctttacat tcccaccaag aacatatggg cgatccactt catccgcatt ctcaacaaca    900
tttagttgtg tctctgtgtt ttattttagg cattctggta ggtatatagt gatagatata    960
taacttactc tggttttaat ttttatttct ttaattggga atggttgtga gtatcttttc   1020
atgtactcat tttgccatct gcatatcctg ttaggtgaaa tggtacttat t            1071
```

```
        <210> 924
        <211> 1758
        <212> DNA
        <213> Homo sapiens


        <400> 924
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tcaattaaaa tggtttttttt ttttgagaca gttttgctct tgttgtccag gctggagtgc    120
aatggcgcga tcttggctca ctgcaacctc tgcctcacag gttcaagcga ttcttctgtc    180
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aaccacacac acattattta agtactttcc atcttcctag agaaatttag ttacactgtt    480
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ggtttgggaa ggggaggtgc tatggaggtt attgttgtga catgttgctt cgaaatctat    660
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aacctcaccc agagctgcct gcacgatggt gcaaacatct tctccggcta ttctaaaagt    780
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gagcacagaa cagtcagttt ttcacatagc tgcgggtctc tggccacctc tcgtggcatg    960
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gcccagtgaa gtggggtatc tctgttgcca tccaaagcat tggggtttgc accatactcc   1320
aataggacct ccacacaagc ctcatctttc tctgctgcat agtggagggc tgttcggtta   1380
tacccatcca gggcattcac ctcggctcct ttttccagaa gtaactccac acagtcagca   1440
tctgacacca tacaggcaca gtgcaagggc ttcagtgtgc catgagtgca gttcacatct   1500
gctcccccctc tgatgaggtc ctctacatta tcatgtggga aggaacggat ggcagcaatt   1560
gttcggatta agcgctcgga gagagagtat ttgctctgaa tgctctgcat aatataccac   1620
atactggaac tcatcaaggc tcaaggtgtt cacatgctcc aaactgccga attgctgggc   1680
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aggccctctg tttaccccc                                                 1758
```

```
        <210> 925
        <211> 854
        <212> DNA
        <213> Homo sapiens
```

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     <400> 925
     cagcaaaaaa gattaaatat ctacgagtaa acaagaattg tgcaagccct ggacactggt      60
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     aacatcttgc acaggctgct gactgccttc caagaagccc ttgacccttta ccatgtgttg     180
     gtctcccttg accgggtggg cactgagcag tagcaggtgt agactgagct ggcctctaac     240
     ttcctttgga tccacagcca gttgtaggcc aacaacgggg tggaggggtc tgatgtggct     300
     ccaggccctc tccagctcag gttacccctc cttatgtaca ttgtactcag agctgctagt     360
     gcaggctgtg cacaggaagg caggggacac tgaggtccag cagtccctgc tcctgcttct     420
     gaagaaatag atattttaag tgaataaact gacagcttag aggggtaaaa aagagaatat     480
     gcaagatcta ttgagaattt taaggctggg tgtggtggct cacacttgga atctcaccta     540
     tttgggaggc cgaggtggga ggatcctttg agccccaggg gtctagacca tcctgggcaa     600
     catggttgaa actccatctc tacaaaaaat acaaatctta cccaggcggt ggggtgcctg     660
     cctggaaccc cagcttggtt ggaggctgag tcaggaggaa cactttgacc aggactttgg     720
     ggctgcaatg aaactgtggt tgttccctct atccagggtg acaggcagaa cctgccttaa     780
     tttaaaaaaa gaaaaaggcc cgccgcttta gagatccaat cataaaaacc ggtcatctgc     840
     atggcccctc ctcc                                                        854
```

```
     <210> 926
     <211> 2422
     <212> DNA
     <213> Homo sapiens
```

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     <400> 926
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     cttggctcac tgcaacatcc gcctcccagg ttcaagtgat tctcctgcct cagcctccct     120
     cgcaagtagc tgggattaca ggcgcctgcc accatgccta gcaaattttt gtattttttag     180
     tagagacagg atttttaccat gttggccagg ctggtctcaa actcctgacc tcaagtgatc     240
     tgccctcctc agcctcgtaa agtgctggga ttacaggggt gagccgctgt gcctggctgg     300
     ccctgtgata tttctgtgaa ataaattggg ccagggtggg agcaggaaa gaaaaggaaa     360
     atagtagcaa gagctgcaaa gcaggcagca agggaggagg agagccaggt gagcagtgga     420
     gagaaggggg gccctgcaca aggaaacagg gaagagccat cgaagtttca gtcggtgagc     480
     cttgggcacc tcacccatgt cacatcctgt ctcctgcaat tggaattcca ccttgtccag     540
     ccctccccag ttaaagtggg gaagacagac tttaggatca cgtgtgtgac taatacagaa     600
     aggaaacatg gcgtcgggga gagggataaa acctgaatgc catatttttaa gttaaaaaaa     660
     aaaaagcaaa cacaaagatg cttcaagatc ttcaggagaa gtatggtata caagtttcag     720
     ggaccctatt tgacaatttt cagagtgctc tctatgctga ttccgagtcg agtgtgtcag     780
     ctgtgattac agtgcctgtg gatctaggcc gggttggggg ggtgtgggcg gggaaggga     840
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     gcgtatcgct tgaggccagt aattcgagac cagcctgggc aacatggcaa atctgtctct     960
     acaaaacaaa attggaaaaa ttgactgggc gtggtggcat gtgcctgttg tcccagctac    1020
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     atacaagtta tagttcaagg actttaaata gattatttat atgattgctc ataaggatga    1560
     ggctgtgagg agggaacacc ttatttaatc taatgaaatt ccataggaaa gaggcctttt    1620
     gtatattgaa tcaatttatc tgccttctca gtgcatctgt catattctga aagattctgg·    1680
     gttgatcttt tgcgataacc tctatggctg tgagtgtgtg tgtgtgtttg tgtattttt    1740
     aacattttgt ataatgattg gaggttggta aaaagtaaca caacagtact tttttaatac    1800
     aaacttggtg tggtcttgag ttgtcttcca ttggagagcg tacgtgtgcc acagattggt    1860
     gcacctgccg gcatctctag gattgcacca actcccgtct agctcttctt ggtggcctgc    1920
```

550

```
aggggcctag ggcgcattca cttccctctg cttgacttta cgtggtgttc tagcgtcaga    1980
catcaggcga tgccgtgcat tacccaagac actggacagc tccggatctt cccgtctaac    2040
cactaatcaa gttaaaaaga ggaaattaac gctttcttag tagtctctga aagaaactag    2100
ttatttgcgt aaagatgact tggtcttgtg ttgtttatcc ctggggagaa gggtaaagaa    2160
gaccctcaaa ctggatttgc tgctgaagtg ctttttaactc acctgtgcgg agagcggact    2220
tcaagagagg gcgtgccggt gctccggaca aaacctgggg aatactgaaa gccaccacca    2280
ccaccgtcat tccagcatgc agatctcagt cctgggttgg tgttgtaggg catttattta    2340
tttgacttga cggcgccttt caaagcttgc gaggatccct tcctcttcat cgagtgcatc    2400
tgccaagcct gtgccccggc gc                                            2422
```

<210> 927
<211> 415
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(415)
<223> n = a,t,c or g

<400> 927
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gagtaataag ccaaaatatg ttattacaga cttttgtgac tacctgtata agttactttt      60
actggcattt taattttgtg tggattcaat ttaatgtctg tagagttctt tcatttcagc     120
ctgaacgact cactttagct tttcttatag gacaggtcta ctagtgacaa actctgtcca     180
ttttttctta tctggcagng acttaatttc tccttcattt ttgaaagggt agttttgcca    .240
gataaagaat tcttagttcg attttttttt ctttcagcat tttgaatatg ttaccttctg     300
acctccatgg tttctggtga gaaatcagct gttaatctta ttgaggatcc cttgtatgta     360
atgagttgct tctcttggtg ttttcaagat gctctctttg tctttcaaca attcg          415
```


<210> 928
<211> 1503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1503)
<223> n = a,t,c or g

<400> 928
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ttcacgtgta tattaaggaa ctgatgcatc tgagcattgt caaacaaacg ggaagaagaa     120
gttaaagggc agcctggcat tgatggctgg tggagctctg aagcctgcct ctgcaggtgc     180
agacacatcc acaaaagtaa ccgcagtgga aataagaatc gtcctttcat ttcctgagtt     240
ggcctcagga aaggaggatg aaattagatt tgcagttaca ttgactattt tggcctgtgg     300
attcagcagg gatccgtatt tagtccactt cacttctata accaaagccc ctgggagctg     360
gcaggaatcc ttcctgttga atgactgggt gatgaagtgg atgggcaccc agtccagcat     420
gtccctgggc cctgggaatt tccaaaaggg gccacgtaat ctgggaagcc ctggccccac     480
agcaggctct tcaccttctg tgctacgagc tgacacggga gagctccagt cagtcttagt     540
ttacagccag attgcatagt gtaaccaaat aatactgggg tccggacccc ctccagtgct     600
aagcagtctt gctcagttgt gctatgaaga atagtaagct gtccatatct atttgtggtc     660
tgaataatcc cagacccctt atgaggctgg aatccagcag ctaatgggag ccccacgaca     720
taaccagggt ttccactgag agggactggc tgggtatttt cctgaagaaa atgaatttca     780
```

551

```
aacttttgct gcagtgggac cactacgctg ctaactgtcc ccagaacgaa tgagagatca    840
gctttggtga cttcacctgc atctgtgtat gtgaggctgt actttacctc aagaacaaca    900
ttcacgcaaa ggctaaagtg tccagccgttg acgagagtcg gctgcagcac atcagtgtcc .  960
tcccgtcggg tgagcgtttt atttagagac tgaatgacga tggactgaac agtgataggg   1020
acctttttc ttgaatcagg taccctcaga atttccgggc tgctgtaaaa agccatgctg    1080
agggcttcaa tttcttcaca ctgttctaaa tttatttttc tggtgcactt aacagcctgg   1140
ttcaccagaa acgctgcagg gttattatca gtgcacagag atgatgtcag ggacgaagga   1200
aatctcagaa acgaatctga agtctgcaga ggaaccccat actcatattt agcagcagta   1260
ggaatatcca gtttggttgt gaaggaaaca tatgattcag cattcaatgt aaaaccatca   1320
gatgttttca tcaatgtatc aaaattgttt tcatcaggta cttctggatt aataaaggat   1380
aatgcaggtt tatagtttgt aatatgaatg cagaaaatag atggattaat ctggtcaaca   1440
agttcaaata ctctttgagg tgggtttgct gtaaaattca atgaatagnt gactgctttt   1500
tga                                                        .           1503
```

```
        <210>  929
        <211>  834
        <212>  DNA
        <213>  Homo sapiens


        <400>  929
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agcgagccgc ctccagccct gttgaactgg tgggcccagg gactggagcg ggattgaaag    120
ggatcttgct ctcccttgaa gcctcgagtt gcagcgattt cagtggcttc tctccctgtg    180
taagcctgtc tgggtgttta ggctgaacta cagccacccc ctctcccggg ggtgtgcagg    240
ccagggactg gccaggcagc catggctgac gagaagacct tccggatcgg cttcattgtg    300
ctgggggcttt tcctgctggc cctcggtacg ttcctcatga gccatgatcg gccccaggtc    360
tacggcacct tctatgccat gggcagcgtc atggtgatcg ggggcatcat ctggagcatg    420
tgccagtgct accccaagat caccttcgtc cctgctgact ctgactttca aggcatcctc    480
tccccaaagg ccatgggcct gctggagaat gggcttgctg ccgagatgaa gagccccagt    540
ccccagccgc cctatgtaag gctgtgggag gaagccgcct atgaccagag cctgcctgac    600
ttcagccaca tccagatgaa agtcatgagc tacagtgagg accaccgctc cttgctggcc    660
cctgagatgg ggcagccgaa gctgggaacc agtgatggag gagaaggtgg ccctggcgac    720
gttcaggcct ggatggaggc tgccgtggtc atccacaagg gcttaaacga gagtgaaggg    780
gaaagacgcc taactcagag ctggcccggc ccctggcct gtccccaggg ccct            834
```

```
        <210>  930
        <211>  1434
        <212>  DNA
        <213>  Homo sapiens


        <400>  930
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gaagcccaca ctggcggcca cggagcagag tccctcaccc ccaccagctg tagctgaacg    120
tctggatggt gggagaagagc agggttccga gtctgaggaa gacataacct tgtgcctgcc    180
tgcccacctc tctctctggt cctgttcatc tctcaggctc tgagacactg accttcactg    240
ctcagttaaa ggttccaggg attccacttt gtctggaccc atccagctga gtgaacccag    300
ggtggtggtg tatctgggga gagtgaggag tgggttgtcc aaacaccagg gaaagagccc    360
tttggggcct cagacagagg agtgaagctg gaaccatcag ggaacatgag tgaattttgg    420
cacaaactgg gctgctgtgt ggtagagaaa ccccagccga agaagaagag aagacggatt    480
gaccggacca tgattgggga accaatgaat tttgttcacc tgactcacat tggctcaggg    540
gagatggggg ccggagatgg acttgccatg acaggtgcag ttcaggagca gatgagatcc    600
aaggaaacc gagataggcc atggagcaat tctaggggct tatagctcca ataatggaat    660
ggttctgcca tcttgaaacc cccattctgt ttccagccca gaagaaatgc tgcccctacc    720
```

```
agatccctcc ttgaaccagt gatctaagga cccctctttt ccctatctgc ctaacagtgc    780
ctcacaaggc ttgggggctg gactccctct actccctctg gccatagccc ctcctggaga    840
tggggtcaag gcagcaggac tgatcaagtg actactggtt agccagagga gctcagctga    900
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tctcctgaat gatggtctgg gtgccacctg ttttaaaact cttaaacctg gaactcctta   1020
aatggggtag gtgggtgaga ttatcaaagc tgaagctggc tttgctgaga agctccctac   1080
ctccctgccc ttctcctcct tcctgctgga atgaactaaa gcagatgtca agcagggggct   1140
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cccctcaata tctctctgct aacaccagtg tctctttcta gttaggcctc taatcttctg   1260
tttctgttta ccagcttccc agcaactttc cttttttaaa atattaaaaa tttaattcag   1320
gttctcttaa aaaaaaaaaa aaggggcggc cgctttaaag gatccctggg ggggcccaat   1380
cttacccggg caggcaacga catagctttt tccctaaagg gaggcgcatt aaaa          1434
```

```
<210> 931
<211> 410
<212> DNA
<213> Homo sapiens
```

```
<400> 931
aatacagtgt ggggtgagta tgcacgtgtg tttacacata tggggtttgg gtgtgtgcgt     60
gttcatgcat atgatgtgcg catgtgtggg cgtatacgtg tgtccattta tgaggtatgg    120
gatgcagata tgtgcatgta ttcacgcaca ttcatgtagc gcatgtgtgt gttcgtgcat    180
atggtgtatg catgggtgtt cgtatctgtg gggtacaggc atcatgcacg tgtgttcatc    240
tgtgtggggt gtgggtatac ctggactgtg gcctgaggct ccctacagg acactgctcc     300
ctgccgcctc cccagggat aacaggaccc tgctcctctt gctaaagcca gtttgggagc    360
accccaccc aggcactcca cgccagccag gctcgcctct gaccagatgg                 410
```

```
<210> 932
<211> 2361
<212> DNA
<213> Homo sapiens
```

```
<400> 932
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catataacat ttacatagga gaagctatct gtgaaactcc cagtgactta tatggaaggc    120
ttttaaaaga aaccaacaaa caagagctat gtccatggg caccggcagt gattttgacg     180
tgcgcatcct gcctccatct cagctggaaa atggctacac cactcccaat ggtcacacta    240
cccaaacatc tttacacaga ttagtaacta aaccaccaaa aacaacaaat ccttccaaga    300
tctctggaat cgttgcaggc aaagccctct ccaaccgcaa tctcagtcag attgtgtctt    360
accaaacaag ggtgcctcct ctaacacctt gcccggcacc ttgcttctgc aaaacacacc    420
cttcagattt gggactaagt gtgaactgcc aagagaaaaa tatacagtct atgtctgaac    480
tgataccgaa acctttaaat gcgaagaagc tgcacgtcaa tggcaatagc atcaaggatg    540
tggacgtatc agacttcact gactttgaag gactggattt gcttcattca ggcagcaatc    600
aaattacagt gattaaggga gacgtatttc acaatctcac taatttacgc aggctatatc    660
tcaatggcaa tcaaattgag agactctatc ctgaaatatt ttcaggtctt cataacctgc    720
agtatctgta tttggaatac aatttgatta aggaaatctc agcggcacc tttgactcca    780
tgccaaattt gcagttactg tacttaaaca ataatctcct aaagagcctg cctgtttaca    840
tcttttctcg gagcacccctt agctagactg aacctgagga acaacaaatt catgtacctg    900
cctgtcagtg gggtccttga tcagttgcaa tctcttacac agattgactt ggagggcaac    960
ccatgggact gtacttgtga cttggtggca ttaaagctgt gggtggagaa gttgagcgac   1020
gggatttttt gtgaaagaac tgaaatgtga gacgcctgtt cagtttgcca acattgaact   1080
gaagtccctc aaaaatgaaa tcttatgtcc catactttta aataagccgt ctgcaccatt   1140
cacaagccct gcacctgcca ttacattcac cactcctttg ggttccattt ggaagacatc   1200
```

```
ctggtgggcc agcgcctctt gtctatttta atcttaagta tcttagtggt cctcatttta    1260
acggtgtttg ttgctttttg ccttcttgtt tttgtcctgc gacgcaacaa gaaacccaca    1320
gtgaagcacg aaggcctggg gaatcctgac tgtggctcca tgcagctgca gctaaggaag    1380
catgaccaca aaaccaataa aaaagatgga ctgagcacag aagctttcat tccacaaact    1440
atagaacaga tgagcaagag ccacacttgt ggcttgaaag agtcagaaac tgggttcatg    1500
ttttcagatc ctccaggaca gaaagttgtt atgagaaatg tggccgacaa ggagaaagat    1560
ttattacatg tagataccag gaagagactg agcacaattg atgagctgga tgaattattc    1620
cctagcaggg attccaatgt gtttattcag aattttcttg aaagcaaaaa ggagtataat    1680
agcataggtg tcagtggctt tgagatccgc tatccagaaa aacaaccaga caaaaaaagt    1740
aagaagtcac tgataggtgg caaccacagt aaaattgttg tggaacaaag gaagagtgag    1800
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caaacagctt tgaacaagat ctaggtcatg taatcttact tcatacagag gacatttatt    1920
taatgatgaa agtgcctttt gttgacttct aacttccaaa tactatatta tcaataggca    1980
tggaggcagg tgtttccaag ggtgtctcat taactgtagc tgcaaagatg tgtcaagtag    2040
aagagaattt gtttaataga ttttactaca taaaaccTat actgtggagt cctgtgggga    2100
tactgcaaac tctattgcca aagggatgct ttatacacat aatactgaat ttaacctcaa    2160
gaggcaaatc tgttttgtac tccaatgcaa aaccttcgtc tctttgtgct ttgtaaagca    2220
aactcaagaa aactggtaca cctgtaccag ctgggtcctt tatcttgcac gtagattaag    2280
ttggtggaac tggaataatc cttttgattt gtggcattgt aacaactccg tgtaaagatt    2340
atctgaaaag taaaaaaaaa a                                                2361
```

```
        <210> 933
        <211> 680
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(680)
        <223> n = a,t,c or g


        <400> 933
cagtaatatg cccagatagt atccaataga aagcatntca gcctttcttc cccttcctcc      60
ctccctccct ccttttggag cccccagtgt ctactattcc catctttttt atttgagaca     120
gtgtctcgct ctgttgccca ggctggaatg cagtggcacg atcacggctt actgcagcct     180
caatcttctg ggctcaagtg atcctcccaa cgaagccttc caagtagtgg gactacaggc     240
atgcgccacc acgcccagct acttttcata ttttttgtag agactggacc tccctatgtt     300
gctcaggctg gtctcaaact cctgagctca agcaatccac ctgtctcggt ctcccaagag     360
ctgggattcc aggcgtgcac cagtgcctga cttcgttctt tatggctaca tccaacatca     420
tttcatttag tcctctcagc tgttctgagg tcagcactat tatctccatt tcacagatga     480
agaaattagt atttgtcatt tcaacgaaac ttcatggagc cctcacaaat gacaacatct     540
ccatttcaca tcacgagacc caaagggaag ggtgcacgtc agaagcaaat ccaggatgcg     600
aagccaggtc tgtctgatgc caaagggcaa gccctgagcc cgaaacccca tactgcgcat     660
gcccagcaca cctgcgtttc                                                  680
```

```
        <210> 934
        <211> 728
        <212> DNA
        <213> Homo sapiens


        <400> 934
gccggccacc ccggaccgag gcaggacctc accccgcgcg tgttccccgg gcgcccctct      60
gcgaaccccca ggcccttccc aggtttgcgc gcgggggcca tccagacccct gcggagagcg    120
```

```
aggcccggag cgtcgccgag gtttgagggc gccggagacc gagggcctgg cggccgaagg     180
aaccgcccca agaagagcct ctggcccggg ggctgctgga acatgtgcgg ggggacacag     240
tttgtttgac agttgccaga ctatgtttac gcttctggtt ctactcagcc aactgcccac     300
agttaccctg gggtttcctc attgcgcaag aggtccaaag gcttctaagc atgcgggaga     360
agaagtgttt acatcaaaag aagaagcaaa cttttcata catagacgcc ttctgtataa     420
tagatttgat ctggagctct tcactcccgg caacctagaa agagagtgca atgaagaact     480
ttgcaattat gaggaagcca gagagatttt tgtggatgaa gataaaacga ttgcattttg     540
gcaggaatat tcagctaaag gaccaaccac aaaatcagat ggcaacagag agaaaataga     600
tgttatgggc cttctgactg gattaattgc tgctggagta ttttggtta ttttggatt     660
acttggctac tatctttgta tcactaagtg taataggcta caacatccat gctcttcagc     720
cgtctatg                                                            728
```

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        <210> 935
        <211> 883
        <212> DNA
        <213> Homo sapiens


        <400> 935
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tatttatttt tttgagacac agttccactt tgtctttttg tcacccagga tggagttcag     120
tggcacaaac atggctcact gtagcctcga cctccctggc tgaagggatc ctcccacctc     180
agcctcccaa gtaaccgaga ctacaggcat gtgccagcat gtccagctaa ttttttgtatt     240
ttttgtagag acagggtttc accatgttgc ccaggctggt ctcaaactcc tgggctcaag     300
cgatctgccc acctctgcct cccaaagtgc tgggattaaa ggcataagcc accatgtcca     360
actgaaattc ttaataatta ataattttg agcaagaggc ccacactttc attttgcact     420
gggttcccaa acaggtcctg ggtaggaagg atggctgagg ataaaacagg agttgctttg     480
gcctggctga acatttgaac caatgatcag agtttcattt tatgattgtg gtactctgaa     540
cagaatggct attttttttcc agctacattg agagccccccc aaggaaagag cacccctctt     600
tttccaggcc atctaacctt ctctttttt tgggcccaca atcctttctc cttgccttac     660
aaaaacccgg ataaggggcc atttctttct ggaatccctt gctgtagtac accccaagac     720
agggcctcag cagttatcct tacaccctac gacgtatccc ctcgctgaac ccgcgacgtg     780
gagctccgca gccttttcgg cgcgaacaaa ataccttcta acacacgtgg ggacgcggtc     840
ccctaatctc gtcacagcac gtcctgatcc tgaggcaagc ccc                      883
```

```
        <210> 936
        <211> 952
        <212> DNA
        <213> Homo sapiens


        <400> 936
ggcacgagac tcagatagta attctccaac attgctcata tgatttagta aatcactgca      60
tgttctcggt ttaaaaggat tttccctgtc ttataccttc tatgaattaa aaagcttttg     120
gaccatggat gaatgacata agaatttaac tacttttttt tttcttttct tttgaggcgg     180
attctcactc tgtcgcccag gctggagtgc agggggggga tcttggctca ctgaaacctc     240
agcctcccgg gttcaaggga ttctcctgcc tcagcctcct gagtagctgg aactacaggg     300
gtgggccacc acacccagct aatttttttgt attttttagaa aagacagggt ttcaccatgt     360
tggtcaggct agtcttgaat tcctgacctc aaatgatcta ccggcctcgg cccccccaaag     420
ggcagggatt acaggtgtga gccaccctgc ccagcctact tttctttttt aaagaattta     480
ttttaattgg gtttcgtaaa tgcagggata caaaagctat ggatcttga gatagctttg     540
tattttgtag agaatcatcc caggagcaca ttccctcact gagggttcca gccacctctt     600
ccgcctcatt atactttgct tagcaccgag aagtctggca tcgtttctgt tggaatgaaa     660
agattggcag agctgccctg gacaacagca ctgcaaaaca ctgtggcaga aggtttggtc     720
tacataccaa ggcagccaaa gtattaattg cattctctgt gatcacaaaa taaggcgctg     780
```

```
aattattctc ttcatgtttt aagaatgaca ggcttttgct ctgccagctc caagcatagt      840
gcatcacatg gaaaggagat gctagatttg cacacaaact gattgaggat atggcctggg      900
ttgtatcaat ttctggtacc actgtctttc ttaaaaacat ataagggcga gg              952
```

```
        <210> 937
        <211> 1691
        <212> DNA
        <213> Homo sapiens


        <400> 937
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tggatgcaga agagaactcc agctggtcct tagggacacg gcggccttgg cgctgaaggc      120
cactcgctcc caccttgtcc tcacggtcca gttttcccag gaatccctta gatgctaaga      180
tggggattcc tggaaatact gttcttgagg tcatggtttc acagctggat ttgcctcctt      240
cccaccccac agttgccccc caatggggcc tcggctggct cacaggatga gggttcaaga      300
agaaggctgt ccctggaggt aagagggctt atgaaccatg ttccaaacct ttgcgttgct      360
tttctttcca tcgtgtctat ttcataacat ccctgtgagg ctggatgtgg aacttcagc      420
actgccgtac tcttgggaaa tttgtccaag gccacccggc tgagcagcgg ttgaaccagg      480
acaccatcag gcatgcgttt cttgtctcca ccacaccctc aacccacttc ccaacgcgcc      540
ttgcgacagg ggctgcggta ttgcatccac atgactgata aactagtaaa cacacatgaa      600
ttcattttaa aagtgtattc aatcagttag gtaaactaaa aaccttaagt cttcgttcga      660
tttggaacgc agccagagaa caaatggaaa attttttcaag gtagagaaga tgaaaactca      720
gaacgccctc ttgtggcatc tctacccacc ctaggaacac tatggctctt cccctacaca      780
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acacactgag gttccttttg ccccctcact tttgagccag tgactactga aaccctctcc      900
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ggagttcctg gctgcagaga gctatgattg tgcctgtgaa tagccaatgc actccagcct     1260
gagcaagata gggagaccct gtctctaaaa aatacctaaa taattttaaa agtcagcctc     1320
tctgactgcc tatagagaat gctaactaac tgaatgacag aagacctaat gtaatccagg     1380
tgcaaaatca gaactttccg gccgggcgcg gtggctcaca cctgtaatcc caacactttg     1440
ggaggcccag gcgggtggat cacgaggtca ggagttcaag accggcctgc ccaacatggc     1500
aaaaccccgt ctctactaaa aatacaaaaa attagctggg catggtggtg gccacctata     1560
atctcagcta ctcaggaggc tgaggcagga gaattgcttg acccgggag gcagaggttg     1620
cagtgagctg agatcgcgcc actgcactcc agcgtggggg acaaaagcga aactctgtct     1680
caaaaaaaaa a                                                          1691
```

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        <210> 938
        <211> 1272
        <212> DNA
        <213> Homo sapiens


        <400> 938
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ttgtataatg acagctattt ataaagctgt ggccgatggt atacagcgca gagacggagg      120
gcactgtcga cgggccacac ttaggatata ttttctctag tgtaagagaa aagagagagt      180
atggagtaca gaggctgata ggtgttagat gtggaatgtg gcatttctct ttcagtggtt      240
tctgtcattg aaaaaggaag gaaggtcatc agttgagacc aaagatagga gaagtgtcag      300
agatttgtgg ggaatgccta agaaaatggt tagttttgga ggagagtggc taagggaagg      360
gcttagggaa gtgtgatttg atttctgcac gatgtcaaga gcccacttga gttttggtta      420
```

```
ttaaagtaag accagtttga atgggtttgg gttttttct aaccatattc aacagcacag     480
gttcaggcat agattaggtt gtgagttgga tttagatgag agagggtcaa ggaaggtggg     540
ggcatgtgca caggagtgat tacaatgact ggcaatagaa ttgaaaggga gaaggcatga     600
ggcaagtgga gaatagtgaa aggtggttgg acctgtggag ttttccagtt ccacagactt     660
cactatggaa acagcagttt gcaatatggt tttaggtctc agcattggaa gttggagtat     720
gtttaagcaa gcaatcaaaa gaaaattttg ttgtgagatt cttgtagtgc tccaatttta     780
aacaaaatca tagtttgaag aaatgtaatc ttaaggtttc tcccattttg ttgcagctca     840
caatcattag ttaaaacttt gattcatgac agggcgtggt ggctcacgcc tgtaatccca     900
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ccaatatgat gaaaccccgt ctctactaaa actacagaaa aaattagccg gcatggtgg     1020
catgtaaccc cagctgctcc ggaggctgag acaggagaac tgcttaaacc cgggaggtgg     1080
aggttgcggt gagccgagat cacgccattg cactccatcc tgggcaacaa gagtgaaatg     1140
ccgtctcaaa acaaaacaaa aaaacaaact ttgattcacc ttaaagaaat aattgagatg     1200
atagtaaaga gtgttatgta ttcctgttat gtaacttgcc agtaccagat tccagttggc     1260
tggcatgcaa ag                                                        1272
```

```
<210> 939
<211> 711
<212> DNA
<213> Homo sapiens
```

```
<400> 939
tttttttttt ttcagttaag gcaggaggga atttagtcgg agctggggaa ggaagaaagt      60
ggggttggga gaacctcccc aaccccatcc cttcctggcc cggggacgcg aattcggctc     120
tcagcaagag aagtattccc cgggatgctg agcgcttcat tctgtctcca agaactcaag     180
gcaaggtagg tccccagtcc gccgcgcccc cgggacctac aggtcaagcg tggtccgaaa     240
gtttcctctt gggggttcgc gggcgcccac acgtactcgg ggggcacctg cgcgtcgggc     300
gccgccttgc ggtagaagcc gagctcctgc actagcgcat tgatctcttc gcgggtcatt     360
tcactgagtg ggatgcgctc tagttcctcg tagcggcggc ccagcagcac gagctcaggg     420
tcggccccag ggaggtgttt catcaccagg ttgtgataga atggaatgtc ctgcgtgacg     480
aaagccttca cctcctttag gcggttcagc tgtcatcccc cgcaggtctc tacccgggcg     540
cgggttaggc cgctcagacg gttccagtcc ggccggtagg cagtggcggc tgtggctggg     600
gccacaagcg ccgcgagaag cagcagcagc gccagcggag gcaacaggag gctcatcggg     660
acccggccgc agatgatgcg caagctggag gcgaacctcc gagtcgctgc g             711
```

```
<210> 940
<211> 538
<212> DNA
<213> Homo sapiens
```

```
<400> 940
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ctccgccgcg accccatcgg gtagaccaca gaagctccgg gacccttccg gcacctctgg     120
acagcccagg atgctgttgg ccaccctcct cctcctcctc cttggaggcg ctctggccca     180
tccagaccgg attattttc caaatcatgc ttgtgaggac cccccagcag tgctcttaga     240
agtgcagggc accttacaga ggcccctggt ccgggacagc cgcacctccc ctgccaactg     300
cacctggctc atcctgggca gcaaggaaca gactgtcacc atcaggttcc agaagctaca     360
cctggcctgt ggctcagagc gcttaaccct acgctcccct ctccagccac tgatctccct     420
gtgtgaggca cctcccagcc ctctgcagct gcccggggac aacgtcacca tcacttacag     480
ctatgctggg gccaaaagac cccaggggca cgggtttttt tgtttttaa aagccaag       538
```

<210> 941
<211> 1510
<212> DNA
<213> Homo sapiens

<400> 941
```
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agtagctggg actacaggcg cccgccacta cgcccggcta attttttgta ttttttagtag   180
agacggggtt tcaccgtttt agccgggatg gtctcgatct cctgacctcg tgatccgccc    240
gcctcggcct cccaaagtgc tgggattaca ggcgtgagcc accgcgcccg gctgcaaata    300
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gatgtcattt tttataacta gccataaact ttagctttga agtaaaacta tttctagcaa    .660
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atctttgggt gactactaaa cattctattg aaaatttgtg aatggtgtga acccgggagg   1440
cggagcttgc agtgagccga gatcccgcca ctgcactcca gcctgggcga cagagcgaga   1500
tccgtctcaa                                                          1510
```


<210> 942
<211> 2226
<212> DNA
<213> Homo sapiens

<400> 942
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tttcgtcttg ggaagaggag ttgctaggga tgaagtggtg cagtggccct gtcctctctt     60
ggtcccaacc tgcgtgggag ggatcttgat gttcagaccc agacttggat aggaagaggc    120
acggggcaat tgcagactcc ctgcagggag gtgtgtaggt gggcaggaga gcagggtggt    180
aggactctgg caaagaggca tctggcctgg cctctcctct gcctccttag ggagctccta    240
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gccttcatcc tcagctttgg cattggccct ggtgagtggg cccaaggggc tctgggcatc    960
```

```
cgtcatcaca tagaaggagt gatgggtgcc tgggtgcaca gtgggtgggt gtgaatgcaa   1020
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gaggagcctg gaggttatcc agtcaacaga actctagtcc caaaggggtg gccagagcca   1560
aagccagcta ctgtcctgtc ctctgcttcc tgccagggcc ctggtcctca ctccctcctg   1620
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gaggccaagg tgggaggatc aattgaggcc agagtttgaa accagcctag gtaacatagt   1860
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cagctctagc tactcaggag gctgaggcag caggatcact tgagtccaag agttcaaggt   1980
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tctttaaaac ataataataa taattacaga ctcaggaaat gcagtgaaag aaaaatacag   2100
gttggccagg tgaggtggct gatgcctgta atcccagcac tttgggaggc caagatggga   2160
agattgcttt gagaccagaa gtttgagacc agcctgggcc acatagtaag atcctgtttc   2220
taccaa                                                               2226
```

```
       <210> 943
       <211> 1026
       <212> DNA
       <213> Homo sapiens


       <400> 943
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gatatacaaa cctttttaatt cagcaatccc atgccactgt atatactcta gaaaaacata    120
catatgtgca ccaaggtaca tatacaagaa tgtacagagt agcatttcct agtagttaaa    180
aacaactgaa acatatgtca acagtaaata aactgcagta tattcataca atgatttact    240
ctatggcaat gacaataaac aaactatatg caaaacatgg atgacccttа caagccttag    300
agcaaaacaa tcacaaatca aaagactgca tgcagtaata ttccatttat ataaaagcag    360
acaaaactac attttctagg gatgcatata ttagccaata aatgcagtaa taaaacccaa    420
agaacagtga ttaccataaa agacaaggcg gtggtcatca ttagagtgga gaaagagagg    480
agtgttttca aaaagagata catgaggggc ttccaggtgg ttgttataca gcatttgctt    540
caatattaca ctgttcactt atattttaca cccctttcta cataatatta tatttcacaa    600
ttagaaaaaa atcaccaaca attttaagaa aatataggat tataatacaa tttgattagt    660
catatttaaa tatgcagttc aaatggaaag gctggtatca tcagtaaata gaaagtgtca    720
tgagacaagc gggactgccc caggagagag cactggacct gggggtaact tcctaacgca    780
aatccaatca taaacaggat cagaaaaatgc acttcaaagc tagccttgca agcccaaaaa    840
ttcaaagttg agaagaaatg agagtgaatg aatcccatac ttaagtcaga gtaaaaatta    900
acactttaaa atacattact accttaaaaa agttacaagt ctgtgaaacc tgcgaatgtt    960
gtttatatat aaatccaacc atattacctc tctattctgc caagtacaag agataatttt   1020
aaaatt                                                                1026
```

```
       <210> 944
       <211> 807
       <212> DNA
       <213> Homo sapiens
```

<400> 944

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cggagcctgg gcaacacagc gagactccgt ctcaaacaaa caaaaacaaa caaaccaaaa      60
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gaaaattgtg gtttaaacca aactaatcaa aatatggttc aaaataaact gaattcaaat     180
ttatgattac atccaatatt ttgaaacaca tttgttgtca tctaaaagtt cgacagacta     240
taaacacagt tgttcagaat gtctccgatt tatgaagtgt ttcttgagca tttattgtat     300
gccaggactg tgctaaatat gctacttgct acctctttct tttcataaca atcatatgtg     360
gtaggtgtaa cttttatccc cattttatgg atgaagaact taaggcttgg tgaggttgtc     420
acactctcgt gggttttggt agtagagctg gaagtcaaag ccaagtcagt ctttttattg     480
gctatactaa ccacagaatt ttcattaaat cagtctttaa aaatgttttt gggccaggag     540
tggtggttca ccctgtaatc ccaacacttt gggaggccaa ggtgggagga tcacttgagc     600
ctgggagttc aagagcagta tggacaatct agtgagaccc tgtctctaca aaacattaaa     660
aaaattagcc aggtgtggta gtacgtacct gtggtcccag ttattccaga ggctgaggat     720
ttggcttgag cccaggaggt caagacctca atgagcttgt gccactgcac tccagcctgg     780
gcgattgggc aagacccagt cccaaaa                                         807
```

<210> 945
<211> 2127
<212> DNA
<213> Homo sapiens

<400> 945

```
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atgcgtctgt ccgcctgctg ccggtcgcca ctggaggagg ctgcaggaag cgcacccaca     180
ccgtggccag cttactcagg ggctcgcgac agttgctttc cagctggggc cttgctgggg     240
accatcgatg gcaaggcagg ggtggcctcg gtggatgaca ggaagcagca gtttgtcttt     300
agggcagagg ccattgcagt gagatctcgg cctgatggac gcctggtgtg gacgatgagg     360
gaagaacgtg ccccccacac ccaagaggtg accctgagc cagccccgga tgaccctgcg      420
acctggaaca atgcggctgg cctgcatgtt ctcttccatc ctgctgttcg gagctgcagg     480
cctcctcctc ttcatcagcc tgcaggaccc tacggagctc gccccccagc aggtgccagg     540
aataaagttc aacatcaggc caaggcagcc ccaccacgac ctcccaccag gcggctccca     600
ggatggtgac ttgaaggaac ccacagagag ggtcactcgg gacttatcca gtggggcccc     660
gaggggccgc aacctgccag cgcctgacca gcctcaaccc ccgctgcaga ggggaacccg     720
tctgcggctc cgccagcgcc gtcgccgtct gctcatcaag aaaatgccag ctgcggcgac     780
catcccggcc aacagctcgg acgcgccctt catccggccg ggacccggga cgctggatgg     840
ccgctgggtc agcctgcacc ggagccagca ggagcgcaag cgggtgatgc aggaggcctg     900
cgccaagtac cgggcgagca gcagccgccg ggccgtcacg ccccgccacg tgtcccgtat     960
cttcgtggag gaccgccacc gcgtgctcta ctgcgaggtg cccaaggccg gctgctccaa    1020
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caacaccgtc cactatggca gcgctctcaa gcgcctggac accttcgacc gccagggtat    1140
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gccgcggaac ctgaccttcc cccggttcaa ggaccggcac tcgcaggagg cgcggaccac    1560
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cgacttctac tacatggatt acctgatgtt caactattcc aagccctttg cagatctgta    1680
ctgaggggcg ccgcagctgg ccggggccgc cctgccccgg tcactcacct gtgctcccgg    1740
gcatcctcct gtccctggct cctcatcctg ggagcaacag ggctctgagg acgtgaggag    1800
ccatcgctgt gggaggcagc aggccccggg tggggggcag aggcgcccag ccttggatgg    1860
ggaccccagc ccctggcctg tacctgtttc ctcattcctt ggctgaggga gaggctgaga    1920
actgggcaga cacccctgga gctcagccga cagttttgat gagcagggaa gtctgaggcc    1980
cagaggacgg ggggcccagc ggtaagggat gtcccgcact cccttagcca ttgccttgga    2040
```

```
ccaaaccacg tggtttgcag cttttctaca agccaggggg gaggttccct tggattaagg    2100
ttccaaataa agcacatggt ttccaga                                        2127
```

```
        <210> 946
        <211> 1759
        <212> DNA
        <213> Homo sapiens


        <400> 946
cttgcttatc tggcctgcag aggcctgact atgatgctca gaagaacatg tgaggccagg    60
aaggctgctg gctgagctgt ttagagggca tttatccagc agggaactgt cctagcgcaa    120
gagttagtaa ttgctcccct gttccttcac ctccccactt tggagctcag atttgttttt    180
ttgtttgttt gtttgcttgc tttcttttgt tctgttttag agactggaga ctgggtcttg    240
ctctgttacc caggctggag tgcagtggtg tgatcatagc tcactacagc cttgaactcc    300
tgggctcaag aggttgaggc tccctcctca gcctcccaag tagctgggac tacaggcttt    360
cagcaccatg cctggctaat tcaaaaaaac cttcagagag atagggtctc tctatgttgc    420
cctagctcgt ctcaaactcc tggcctcaag tgatcctcct gcttggacct cccaaagcgc    480
tgggattaca ggctcctgga accatgggcc tcaggccctg aggatacggg gctcccggtg    540
gccatgacga cgggtgactg ctgccacctc cccggctccc tgtgtgactg ctccggcagc    600
cctgccttct ccaaggtcgt ggaggctacg ggcctcggac cgccccagta tgtggcacag    660
gtgacttcaa gggatggccg gctcctctcc accgtcatcc gtaccttgga cacaccgagt    720
gatggtcctt tctgccggat ctgccatgag ggagcgaacg gggagtgctt gctgtccccg    780
tgtggctgca ccggcacgct gggtgccgtg cataagagct gtctggagaa gtggctttcc    840
tcatctaaca ccagctactg cgagctgtgc cacacggagt ttgcagtgga gaaacggcct    900
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tgcgacatgg tgtgtttcct gttcatcaca ccgctggccg ccatctcagg ctggttgtgc    1020
ctgcgcgggg cccaggacca cctccggctc cacagccagc tggaggccgt gggtctcatt    1080
gccctcacca tcgccctctt caccatctat gtcctctgga cgctggtctc cttccgctac    1140
cactgccagc tgtactccga gtggagaaag accaaccaga aagttcgcct gaagatccgg    1200
gaggcggaca gccccgaggg cccccagcat tctccactgg cagctggact cctgaagaag    1260
gtggcagagg agacaccagt atgaatgctg ggctctccgg accctgcagc agagaggcca    1320
gaggtagctg gtgataccct gtcctgtgga aggacttcca cttcaacact tccacttcaa    1380
cagttcccgc acggcctgaa cgcttcttag gccaagagac accatgcgga gcctagtctg    1440
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ggggggacatg gtcctgagct ctggacggag caggcaccct gatctcattc tgaggtccac    1560
atggcacctt ttgggccagc agctggggcc ggggtatcaa gggcgccctt aaagctggaa    1620
cattccagca agcttttttgc gcttctctgc acccggcagg cccactttcc tggcaccctc    1680
gactttatat aaaagttgca ctgcgtttca aaaacccacc cctgaatgaa taaaaggagc    1740
cctggctgga aaaaaaaaa                                                  1759
```

```
        <210> 947
        <211> 1033
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1033)
        <223> n = a,t,c or g


        <400> 947
cagtccannn nccggaattc gcgagccgca gtgaggccaa cgccgtgttc gacatcctgg    60
ccgtgctgca gtctgaggac caggaggaga tccaggaagc agtccgcacg tgcagccgtc    120
```

```
ttttcggggc cttgctggag cggggagagc tgtttgtggg ccagctgccc tctgaggaga    180
tggtcatgac agggtcccag ggagccacac ggaagtacaa ggtgtggatg agacaccgct    240
atcacagctg ctgcaatcgc ttgggagagc tcctgggcca ccctcctttt caggtcaagg    300
ggggccctc agcctcttgg ccttgaacgg gctgttcatc ttgattcaca aacacaacct    360
ggagtaccct gacttctacc ggaagctcta cggcctcttg gacccctctg tctttcacgt    420
caagtaccgc gcccgcttct tccacctggc tgacctcttc ctgtcctcct cccacctccc    480
cgcctacctg gtggccgcct tcgccaagcg gctggcccgc ctggccctga cggctccccc    540
tgaggccctg ctcatggtcc tgcctttcat ctgtaacctg ctgcgccggc acctgcctg    600
ccgggtcctc gtgcaccgtc cacacggccc tgagttggac gccgacccct acgaccctgg    660
agaggaggac ccagcccaga gccgggcctt ggagagctcc ctgtgggagc ttcaggccct    720
ccagcgccac taccaccctg aggtgtccaa agccgccagc gtcatcaacc aggccctgtc    780
catgcctgag gtcagcatcg cgccactgct ggagctcacg gcctacgaga tctttgagcg    840
ggacctgaag aagaaggggc ccgagccggt gcccactgga gttttatccc agcccagggc    900
ctgctgggac ggccgggtga aactctgtgc ccagcacttc cacgctcagc tgaccctggc    960
ccacctgtga ataaatcttc agctgacccc agcccacctg tgaataaatg ttttttgcag   1020
gaaaaaaaaa aaa                                                      1033
```

```
        <210> 948
        <211> 401
        <212> DNA
        <213> Homo sapiens


        <400> 948
gctggccatg gcggcgcctt ggaggcgatg gcccacgggg ctgctagccg tgctgcggcc     60
cctgctcacc tgccggcccc tgcaaggcac gacgctgcaa cgggatgggc tgctctttga    120
gcatgatcgg ggccgcttct tcaccatcct ggggctggtc tgcgcgggcc agggcggctt    180
ctgggcttcc atggctgggg caggcgcgct gcggaccccg ggtcccctgc aaggtatgaa    240
tgtggaacgg catgagctgc tcttttagca tgagcgctgc cgcttcttca ccatcctctg    300
gctggtctgc tcgggccacg acggattcct gggctttcat gggtggggca gcccgtgtcc    360
cggcccccccg ttccggtgca acactctgga tgcggagggc g                       401
```

```
        <210> 949
        <211> 432
        <212> DNA
        <213> Homo sapiens


        <400> 949
cggaaagtag agcggggcta gagcagggct gcgatcgagg gggagggggc gggacacgaa     60
agaaagatcg gaccgccggt cgtcgctgga actagcaggc gaagcagaga aacgcgatcg    120
gctactgaag ccagacgagg tgacgagact gtacacggac gactacgtgt tcgcgtgggg    180
atccaggaga tcggcgtgct aggccaccga ggataagagg atggtggcac aagcagcaca    240
cggcagcgca gccggtgcgt actcggccac acccagtccc tccgccagcg ccacccaggc    300
ggcaaaggcc aggatcacca ggaggcctga gaagtaggtc atgttcctcc caatgcactt    360
gttgatgggc ttcatgagga aggaggacaa gaagccgctg aggtacatca ccaggggaat    420
ggtcgcgatg aa                                                        432
```

```
        <210> 950
        <211> 450
        <212> DNA
        <213> Homo sapiens
```

```
      <400> 950
ggcacgaggc aaaacaatgc ttgaacattc agttctacta aaatacaata tttgagtaga      60
tcccatcact tttacccatt gtttgctatg ttggacccta aaacaggctg ctgacagatc     120
ggacaagtga aattctctga gagccattgg tcagtacaat gaatatgaaa ttcatgcctg     180
caaggtaatt gcctgagctt gtttccagtt atgtggtcac tgatacaaac actacagatt     240
ttacctggtt cactatcaat actgttatgc tctagcgctg ggtggaaaga ttgtcagtct     300
gctctttggt taaatcatgt attcaggcgg gcgtggtggc tcttgcctgt aatcctagca     360
ctttgggagg ccgaggcagg cggatcacct gaggtcagga gttgaagacc agcctggcca     420
acatggtgaa acccatgtct actaaaatac                                      450



      <210> 951
      <211> 1321
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1321)
      <223> n = a,t,c or g


      <400> 951
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tggagggcac accatgagga gcgagggtct cagctctccc cagggaccct gggaaatcca     120
tgaccctcca ccaagtcctg caggtaggnc cttgtactcg gtcggaggtg agggagagtg     180
ggtggctgtt ggaaatgtgc aggtccacag tattctccag ggaggagggc accccctacc     240
cgggccattt ctaccaaggc cctgaggcac gtgggcacaa ccttgaccat cacgagcctc     300
ttggtccacg gctggtcctg gggccatgac tcccccacac agaaccagag ggcatagcgt     360
ggtgagcgtc cgcttccttc cgtgaaggta atcagatctg ggggccccag aagcctacaa     420
tgaagggccc caggtcaaac acgcctcctt ccttgtcctt ggggacctcg ccatcaggcc     480
catgcccgct gttggggagc agctcctcgc tcactgccca gtatgtgtgg cagtgcccca     540
gccgctgggc ccagagccac tgcccggccc gccagagagc cagtcccca cccaggcagc     600
tcagcacatg cctcacgtag ctcatcactc ccctgtctgt cagggacatg ccagggtctg     660
gcagtgtgac tggccatcca ggcagcgtcc tgtctcccac ttcggacccc accagccgca     720
ggccctccgg gcaggagatg gtctgctgga agacttggcg gccccggtag aaggctgtca     780
cctcgaactc ccactcttcc cccggcacca acagccgctt cagtgggttc tcagagggcc     840
ccaggtttgg gaagggagtg ggattgtcca agctggggct ccgcaggggc tgagggcagg     900
gctcaggggc tacagccagg cttgggggtc ccggatctgg gagtgggggcc aacaccatgt     960
tacccagtaa ctcatccaga atgtcttcct gggtatcaga agtactgcct ccaccattgg    1020
tgtccggaga ggtgtctggc tgggaaaagt ccccaactcc tgagttcaca aactcgtaga    1080
ttttatgtgg gtcgtgaggg tccttgctcc ggtcctctgc taaacgcaac ccttctttgc    1140
ggttgagggc agagcggaaa ttcctcttcc aggttggcag gtctggctta tccctcccgg    1200
gaacatatgc accagtggcc tcggcccagg ccggctttcc cggtttttatt cccgtaaccc    1260
tgcagctcca accctgcttg cgccccacca tcagtcagcc ctcgtgccaa gcttggcgta    1320
a                                                                    1321



      <210> 952
      <211> 1729
      <212> DNA
      <213> Homo sapiens


      <400> 952
tggaaaggat cacattaaat acttaatttc tgcgattctt ccctctcaaa gagtcacagt      60
```

```
tttcaggcct tttaatgaaa aagaaagtta ggcagtagaa taaaaattta aatagctaaa    120
attaagtttt aaaaaaactc ttgatattta aatctcttta aagatataaa ttcttttgaa    180
taaaaatgta aaggggagag tgggtacata tctgaacatt aaactttagg cactttctgg    240
gagttgatac ccaatactgt aaaagtgggc tgaagagtta ccactaggta aacacattaa    300
gctaaaaaat caataaccac taactctagt ttcagatgca cttctatagt ttctcaaggg    360
tcattagtat accaaagtca ctaagaaaaa ctatgacaga atgcctaaag tatcttatgt    420
gtgcctcaat gtccaaacaa atctggctta aaatttccaa ctcaagccat ttaatagggt    480
atgtatgttt ccaattaaat gaaataaaat taagagaatt aaaagtgata gggaaaggtg    540
gtacagaaaa tctaaaaagt ctaaattagc tagcttattt tgataaaaca tacaaaataa    600
caaattcaca tctcttaaaa tatcttaatc agaagtcaag acagttgtcc agaaaatgtc    660
acattattca ttgttatcta cttttattt ataaacagtg gaaccaaagc cactacttga    720
gttatactta aatttttttg ccctgcttta tccacccaaa tttgttttca aaactatact    780
caaccaaaac ctatttggca tttattgtca ctaagatgta gcaaagaaaa gagtttgcca    840
aattttaatc aagattagat aagatttaa tacaacatac tctgctcatt tgaaataaac    900
cagtatcttc cacggtttct tcaaaatatg cggacatctc acaggaatac tgtaaatttc    960
agtgcaaagg atgccacccc aggaggacac tgttggactt gggcttgcgt taaagggtac   1020
acatggaaaa ctgctttaaa ttaaatatct acaaaaaagg aaagccaaaa ggacttgttt   1080
tgggttgagg aacaatagga gtccacataa gtcttcaatt ctaggagctt caaaatgaag   1140
aaaagggctg agatgtgttg tccttcatgt tcctgttcat ccaagttgct tccctttgaa   1200
gaactaaaga aacacttaca ctccataatg tattcctttt gggaggattc cccataaagt   1260
ttaagttcaa catctcagca taaggatgta tgctatagag tagctaaaat ccgtaaaaag   1320
gagaccacca agacgcaaaa tgtctgtcca gtgcccagtg tgagggcttc aaatggtatc   1380
atttccttcc ctgctgctcg gtaaactcca gcaatagctg caccatattt gtgatgtctg   1440
agggtgaaga gggccagtaa tccagcaggg acatgaaaga agagagaaga caccagtgcc   1500
cacaggaata caccatacca catctctggg aaggagcaga gggaagtaga gttggggcac   1560
agggtcccgt tgcccacccg cggcacaacc ttcaggctca ggatctgctg caggagcccg   1620
gccgacccgc cgctgccgcc gctcccctcg cgctccatcc cgtcgccatt caccacagag   1680
aaatgaggga cgagcgcccg aagtgcggta gcggccggcg ccgactcac               1729
```

```
    <210> 953
    <211> 1205
    <212> DNA
    <213> Homo sapiens
```

```
    <400> 953
cggacgcgtg ggttttccta ttctgtatcc ttaccttggt catgttaatg actttggagt     60
tattcagtta atgacccttt aattctcaca accaaccagt catgttgctt gaagccattt    120
atagacgagc ttcaaagcaa cttttaaaga ttcttctgta gaagtatgag ttcatcctct    180
cttatatcag ggaatgtccc tcctcatgaa gtgttcaaga agactaccgg acgcgtgggt    240
ccgttctttc ccactaatat gaaactcaaa cttactgtga gccaggccct ggtctgtcaa    300
gtttaccttt ctagtctcct gccgtaactc aatgaagcag attgataata ttcccattca    360
cagcaagaaa accgaagcac aaagaggtgt cgtttcttgc gtgacatttc acagcttgga    420
tggggcagag cctggctgga aatattgcag atttatttaa taaccagccc ccttatttgt    480
aatatgtttt cagcagtttt tcctgcagtt tcttgccaaa tctcccttt gtccacctgt    540
aacagcctgc agcactttcc ctatgctgga gttctatgtt ttaggcctgt tctctgcctc    600
tgccctggcc aagacttctg tggcaatgtc agatgccagt ggaggctgct ggcaggcgtg    660
gacgtctcag atgtctgatc cttcaggagc cccctccacg gggccctggc taggcagtga    720
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gaaagactct tctgtcccca tggctgggcc aaaccaggga agacgctgac atcaagcaca    840
attgagaaca agcagcagta ggcaatgttc tggggctatt aattcatcct gggggaaaaa    900
acctcacagt ggattaaatt ggtttatgta aagtgctgag aagagcccag cctgggcaac    960
atgatgaaat cttgtatcta caaaaaatac aaaaattggc tgggcatggt ggcatgcacc   1020
tgtggtccca gttactcgag aggctgaggt gggaggatca cctgagcctg ggaaggtcaa   1080
ggctgcagtg agccgtgatt gtgccactgc actccagcct gggcagcaga gtgagacccc   1140
gtcttaaaaa aataaaaaag aggggggccg tttaaaaggt caatgtttat atcccgggct   1200
tggac                                                              1205
```

```
        <210> 954
        <211> 489
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(489)
        <223> n = a,t,c or g


        <400> 954
ctttgacgcc ctcgtagtag gccctaagaa ccggancgac ccacgcgtcc gcggacgcgt      60
gggcggacgc gtgggtgcta caaagtgcac acctggcgtt gatacgcagt ctcttgctgc     120
ctgttaacta acccaccagc cgacaagttc tgcccactgg caggagcaag gacttataaa     180
aaatagtgcc tccctcccaa gggcttatga gctggttaag tgcagaggac aaatagaatg     240
aaagaaaagg caatctcggc atagtattta gttaattctt ctctctctct tgatccctct     300
ctctcctttc tctcttcctc cctcctttct atgacttgtc ctctccacac aactcctttt     360
ccgttttccc tcccctgcct ccccaccttc tttcttgact tcccatcttg ctccctttct     420
tcctgcctgc ccatctgctt tcctttctta tctctggngc aaattctgca tatagtcgct     480
ctcctcatt                                                             489




        <210> 955
        <211> 1172
        <212> DNA
        <213> Homo sapiens


        <400> 955
tttttttttt ttgcgcacaa ccaacagcgc tcccgcccct ttttatttga attcggagaa      60
ccagaggcgc ctgcagattc tggaggggtc tcgcctgccc atcgctggca gcccgagatc     120
ctggggaggg gatgccatac tgctagagat gagggaagag agccccaagc aggaaaacat     180
tgatttgctg tacactcaaa gggcatctca tgccttcagt ccaccgcctc ctcggccac     240
agccgtgcc ctcgcgccgg ctcagactag ctctggccct gctgctgtcg ctgcaggttg     300
tcgtattctt cctggtggtc ctcgggcagg ggcggctcct ccagccctgc agaggatgtc     360
tggagctccc gggtggaccc ggcgaggcgg aagaccacgg ggatctgggc cagggttggg     420
ttggtctcct gcaggccctg gatccactta gccatcgtcg cctggtcatg agcacccgcc     480
atgcacatgg cgaagacagg gccttcctcc acttcattga tgtcaaactc gtagttgtcc     540
cagccactcc tcacatactc caggtccagc tgcatcgggt agtagaggtt ccactcctcc     600
ggcgtctctt ccacttccct ctcctccggg ggcagcaagt cagctctgag gatgtggtaa     660
tacacacact tgttgcggag ccacaggag aagggggccct caacaaagac aggccgggct     720
ggattgtggc gggccagggc ggcctgctga tcgggactct ggattcctgg tgtggagaca     780
tacatgccct gtgccctacg atgtggggct gggggggatc tgctgcacct gttgagtctt     840
tgggcaaagg aacctctggg gagggagacg ggcggcgtca ggggcagcgc acggggcctg     900
ggtagaagca gaggactcgt cactgtgtgc ttttacatgc tgtttggctt tttagtgcat     960
tgctttgcaa aatgaagaaa tgaactaaaa acaaccctcc cccccacatt ctgctgctgg    1020
tctcaagcca tctctcacct ggacccacga ccctggtccc ctagcccctc tccccatcca    1080
acagcatcca cacggctgcc aggagacacg tttccaattg cagattcttc cagaaacatg    1140
attccaaccc gattccttct tctctcgtgc cg                                  1172




        <210> 956
        <211> 1286
```

<212> DNA
<213> Homo sapiens

    <400> 956
gcattatcat ctccttggtg tgcctcgtct tggccatcgc cacctttctg ctgtgtcgct   60
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    <213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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    <213> Homo sapiens


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    <212> DNA
    <213> Homo sapiens
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        <212> DNA
        <213> Homo sapiens


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cctccgcctc ccaggttcaa gtgattcttg tgcctcagcc tctcaagtag ctgggattac     120
aggcatgggc catcatgcct ggctaatttt tatattttta atggagacat ggtttcacta     180
tgttggccag gttggtcttg aactcctgac cttgtgatct gcctgccttg gcctcctaaa     240
gtgctgggat tacaagcatg agccactgca tccagactct ccttgttgcc ttatttattt     300
gagacgcagt ctcgctctgt cgcccaggct ggagtgcagt ggcttgatct cggctcactg     360
actccagcct gggtgacaga actgaaaaaa aataacataa aacatagata cagaaaacca     420
caaaggacaa acacagcata ttgaatcatc acaaggcagc cacccccttca tagccacacc    480
tggcccctgg ccaccactga cctgtgctcc atcgcgcaga attccgttgt ctcaggaatg     540
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tgaggcccgt gaaagctgtt ggtatgtcaa cagttagctg cttctcattg ctgagtggcg     660
attggtcctg tcatggttta ttcagccatg tggtggatgg ctacttgtct tctaagccac     720
ttgccttctg attgctggac tgactctctc gccctctctt ggtgcagccc tcgggaggct     780
cagtcacact ctccgagagc acagccatca tctcccacga catcacaggc ctggtcacat     840
gagatgctgc cctctacctg gcagaatggg ccatcgagaa cccggcagcc ttctctcata     900
ggtgacctcg gggcgcacgg caggacaccg aggcaggctc accctggtgc agtcacagac     960
atggtcccct ttcctcccgc caggactgtc ctagagcttg gcagtggcgc cagcctcaca    1020
ggcctggcca tctgcaagat gtgccgcctc caggcataca tcttcagcga ctgtcacagc    1080
caggtcctcg acccggga                                                  1098
```

```
        <210> 965
        <211> 422
        <212> DNA
        <213> Homo sapiens


        <400> 965
ctcgctgaga aagtacttgc tgggaaatct acgattgagg actactttcc tgaatgatgc      60
tcgctgcact actcctgagg aggctactcc cgagcccgga gaggactcca cgcgtgaccc     120
gggccaagga cttcattcga gaggagtttc tgtggatcag cactgccagt ggagatgggc     180
gtcactactc ctaccctcat agcacctgcg ctgaggacac tgagaacatc cgccgtgtgt     240
tcaacgactg ccgagacatc attcagcgca tgcaccttcg tcagtacgag ctgctctaaa     300
aagggaaccc ccagatttag ttaaagcctt aggcacaatt agttaaaagt gaaacgtaat     360
tgtacaagca gttaatcacc caccataggg catgagtaac aaagcaacct ttcccttacc     420
cg                                                                   422
```

```
        <210> 966
        <211> 617
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571

```
<212> DNA
<213> Homo sapiens


<400> 966
tgtgaaccca cctcgactga gtcctgctgc tccttctacc ctaacgagat gggtgttggt      60
ctctttctag tccacttgct ccccaaatcc tcgcaggctt ctctgtgttc aggaagacaa     120
gcagtctctc agaaagagac acacccaccc cacaaaaaaa tccttggaat ttgtatgtgc     180
agctcaccag ccgtgctcct gtgtgcatta gtcgtggggt gtcctgttgg gttccctcat     240
gaggctgatc ctggcagcat gcagagggcc tcatccttag ggcttcacca ggcgtcagta     300
gtctcggcag gatggttggg acaggcgagg cacggtgctc acctgggctg ctctcttctc     360
cccagtggtg tccatgggct ctggagacca tcagttcaac ctcgcagaga tcctgtcaca     420
gaactacagt gttagggggg agtgcgagga ggcctcgagg tgcccagaca agcccaagga     480
ggagctggag aaggacttca tcttccaggt acttggccca ggtggatcct gccctgtgg      540
tgggtggagc ccctccgggg taaagccttc atgagttttt gtgggaggtt caagaatcca     600
cattttggta aagtggc                                                    617



<210> 967
<211> 1446
<212> DNA
<213> Homo sapiens


<400> 967
ccgggtcgac gatttcgtca ggagaagcca aacttggtcc cccggctcgc ggagtgcctg      60
cgagcggtgc tcatggcgct ctatgagctc ttctctcacc cggtcgagcg cagttaccgc     120
gcggggctct gctccaaagc cgcgctgttc ctgctgctgg ccgctgcgct cacgtacatc     180
ccgccgctgc tggtggcctt ccggagccac gggttttggc tgaagcggag cagctacgag     240
gagcagccga ccgtgcgctt ccaacaccag gtgctgctcg tggccctgct cggacccgaa     300
agcgacgggt tcctcgcctg gagcacgttc cccgccttca accggcagca aggggatcgc     360
ctgcgcgtcc cgctcgtttc gtggaggaga taatgcctgt tgtgtacagc aagacagtgg     420
gtcattgtgt atgtacagaa gtgatgtgga ttcctcccag actcattagt gaccagggct     480
gctgggcctg tttgggtttc ctagactaga gaagaagaca ggaaccagga tgggaagacg     540
gacatgttac attttaagct ggagcttccc ctgcagtcca cggagcacgt tctcggtgtg     600
cagctcatcc tgactttctc ctatcgatta cacaggatgg cgaccctcgt gatgcagagc     660
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ctgaggctgc agcagaagca gccgctgagc tgtggtggcc tagatgcccg atacaacgta     780
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cagcactttg ggaggcggag gtgggtggat cacttgaggt caggagtttg agaccagcct     960
ggccaacatg gtgaaaccct gtctctacta caaaatacaa aaaattagc tgggcatggt     1020
gatgggcgcc tgtaatccca gctacttggg aggctgaggc aggagaatcg cttgaaccca     1080
ggaggcagaa gttgcagtga gccaagatca tgccactgca ctccagcctg ggcaacaggg     1140
taggactcca tccacacaca cacacacaca caaaattgaa aagtgaagac attttaatgg     1200
agatttaata gtgcttccag actaatgaac taatggagtt ttggctccac tcatgagtgt     1260
atttgaaatg taagtaacca gctacaaaga ataatgtcac ttcatttgat tatgactacc     1320
aatcaagaga aggaggaata catttctgag gagtgatact aaaccatttt gagcttaaat     1380
gagtacctga ttttgcagcc attaaaaatg tgttcattaa ctatgtgggg aattattgga     1440
aaattt                                                               1446



<210> 968
<211> 1495
<212> DNA
<213> Homo sapiens
```

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      <400> 968
agtttggaaa aaccgcgccc tgggaagccc cggagccgcc gcagccgcag aggaagggag    60
accccgggcg ccgcagaccc gaaagtgaac ccccttcgga gagatatctg ccctcgaccc   120
ccaggcctgg acgagaggag gtggaatatt accagtcaga ggcggaagga ctcctggaat   180
gccacaaatg caaatacttg tgcactggga gagcctgctg ccaaatgctg gaggttctcc   240
tgaacttgct gatcctggcc tgcagctctg tgtcttacag ttccacaggg ggctacacgg   300
gcatcaccag cttggggggc atttactaca atcagttcgg aggggcttac agtggctttg   360
atggtgctga cggggagaag gcccagcaac tggatgtcca gttctaccag ctaaagctgc   420
ccatggtcac tgtggcaatg gcctgtagtg gagccctcac agccctctgc tgcctcttcg   480
ttgccatggg tgtcctgcgg gtcccgtggc attgtccact gttgctggtg accgaaggct   540
tgttggacat gctcatcgcg ggggggtaca tcccggcctt gtacttctac ttccactacc   600
tctctgctgc ctatggctct cctgtgtgta aagagaggca ggcgctgtac caaagcaaag   660
gctacagcgg tttcggctgc agtttccacg gagcagatat aggagctgga atctttgctg   720
ccctgggcat tgtggtcttt gccctggggg cggtcctggc cataaagggc taccgaaaag   780
ttaggaagct aaaagagaag ccagcagaaa tgtttgaatt ttaagggttt ctaaaacgct   840
ctgacagatg caagtggtgg tggaaggtag tctgagccac tgcctttccc aagaatccct   900
tgttgtggaa gtttccaatg ctggaaagac agcgagccag cgttggtgtg gtgggcggag   960
ctcccagtcg catggagcgg tgttcatgga tgcaacagac cctggcttct ggagtcctct  1020
gtgagtgagg gaccaatcaa aattattttt caaaaagcaa aaaaatggcc ggcctcggcg  1080
gctcacacct gtaaccccag cactttggga ggctgaggtg ggtggatcac ttgaggtcag  1140
gagctcgaga ccagcttggc caacatggtg agccccgtc tctactaaaa tacaaaaaaa  1200
ttagccgggc gtggggcgg gcgcctgtaa tcccagctac ttgggaggct gaggcaggag  1260
aatcgcttga atctgggagg cggagattgc agtgagccga gatcccgcca ctgcactcca  1320
gcccaggtga cagagcgaga ctccatctca aaaaaaaaa aaggggggggc ccgttaaaaa  1380
gaaccaagtt tataggccgg gggggggaag aggaattttt ttttttgggg gcccccaaaa  1440
taaatttccg ggccgggggtt taaaaaacgc ggggagggaa aaaccccggg cttcc       1495
```

```
      <210> 969
      <211> 999
      <212> DNA
      <213> Homo sapiens
```

```
      <400> 969
atccactatt ccgtgtggtg gaattcgcaa gctataagct ctgcaagtgg tgaccccgac    60
gtgatcgcct tgaagttacg cttgaaggag gaaaactcat caattttcgg ggaatcccgt   120
tcatcatctc cggatccctc tcagtggcag ccgagaagaa ccacaccagt tgcctggtga   180
ggagcagcct gggcaccaac atcctcagcg tcatggcggc ctttgctggg acagccattc   240
tgctcatgga ttttggtgtt accaaccggg atgtggacag gggctatctg gccgtgctta   300
ctatcttcac tgtcctggag ttcttcacag cggtcattgc catgcacttc gggtgccaag   360
ccatccatgc ccaggccagt gcacctgtga tcttcctgcc aaacgccttc agcgcagact   420
tcaacatccc cagcccggca gcctctcgc ccctgccta tgacaatgtg gcatatgccc   480
aaggagtcgt ctgagtagca gatgtggcac ctgcgggtgg agtccagcct tttccctctg   540
ggcccagcct ctccccaccc ccaccttgtt catcaggggc cagccccatc ccagctgccc   600
tccctcacca catctacaca tactccggca tctgagtgaa gtgtccccag ggacatctct   660
cccacacttt ccccagtgct ttctttctaa aagacaccgg ctgacgtca ggggtgtgtg   720
tccttcagct ccctgagccc tgtcaccctt ccaggacacc caccttgtgc atctaagcat   780
ttctctgctc attggggaaa tcctggcctc attggagact caggttcgag gcctgccctg    840
accctcgggc ctcgggaagg tcagagagcc cggaatcctc cagaatggaa gagtcttgac   900
tctggctttc cacaaaaagg gcccataac aagggcccaa ggggctctca acaaaggggg   960
gtaaggggcc cgtgggccca aaaagtcctc gctgggccc                          999
```

```
      <210> 970
      <211> 865
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```
        <212> DNA
        <213> Homo sapiens


        <400> 970
agttaacagg tacacatgat acatatttca aatggtttga aagtgaatac aatgaaagca        60
agcaggaaga cttgattgga agcaattttt tcttggtttg tttcaagcag tattttttca       120
tgttgactgc actgccaaaa tcatttgtgt tcaaggtggt gggtgaatgg tggtggcttt       180
ttatttgctt ggttttggct tttgctgatg gaaaaagaca caagtatagt tatgatgcaa       240
atgttttct tcaagttaat tatattactt ggccagatag ttttcacca gtgccctccc         300
ttcccccaat cctgtgagct gtagccttct gtgcttttgt gttcttataa gaacctcact       360
ggagctggca gtggtggtgt gtgctggtaa tcccagctac acgggaggat cccttgagcc       420
cagggggttct tggctatcca ggacaacata gcaagacact cttttctcta aaaataaaat      480
aaaaaagacc ctcactggta ataagcaggt gtacttgtga ctaaaaatat agaaaacaca       540
gtttaataaa gaatctcaca tagattacaa atagaatgaa gaaatgatgt gttagaaaca       600
gttatatatg ttaagggcgc ataaaacaca ccattgttac aacatttttgg ctacaattgc      660
agctttctca atctgctggc cttttttaaa taagaaagct ttttaaaaaa atgaaccaaa       720
cagctcagat ttagcggagg acctgaaaat tttaacctcc cattctacag gcagcgtctg       780
gacctttta aacatggcga cgctttaaat tttctggaac tgtttcgccc caaagctccc        840
gagcctgcca acattacgag ggaac                                             865



        <210> 971
        <211> 630
        <212> DNA
        <213> Homo sapiens


        <400> 971
ttccagcgtg gcggaattcc tgaatagctg ggattacaag gcgtgcacca ccacgcctgg        60
ctaattttgt gtttttagta gagacggggt ttctccatgt tgaggctggg ctcgaactcc       120
tgacctcagg tgatctgccc gccttggcct cccagagtgc tgggattacc ggcgtgagct       180
accgtgcccg gccggaacat tggttttttcc catggacact ccaaggtcaa ctgttttctc      240
cttatggttt ggcatccaca aagcagcagg aatcttccaa gtactggttc aactactgct       300
tttactaact ccttacccac gttatccttc cccgtctcct ctccctccct actcataccc       360
ttgatatcac ttactatggg acatttgcag ctctcattca aagccatcct ttagataaga       420
cctgaacatg cttaaatttg tttcagagga tctgttgagg atctttccac cagggaatcc       480
agagactgat gtgggcagga gaaggaggac agtttgattc aaatctctaa agactacttg       540
ggaaattatc caggccaaag ttgtcctcct caagggggca aatctcaact gaagagtgcg       600
taacatttat ttgtattgcc cacctgtatt                                        630



        <210> 972
        <211> 426
        <212> DNA
        <213> Homo sapiens


        <400> 972
aattaagttg ctgtctttgt atacagggtc agattgttaa gcgacttgcc catagtcacc        60
tagtaagcaa gttcagttct ccttttctct acagccattt cacagtaaga attacttaat       120
tatgtagttt gactttcagg tacagtggag aagaatttac tgttttttgtt ttgctgctct      180
ccttatagga tgatgtgggc tgctggggca gtagcagcca tgtctagcat cacctttcct       240
gctgtcagtg cacttgtttc acgaactgct gatgctgatc aacagggtga gttgatagga       300
actagcgata attatttaaa agtacagaat gttctaatcc tgtgttctgt ctcctatgta       360
ctgaaacata agtatatctt caggggagag acttttaaaa ttgcttttga tataaacagg       420
aaaagc                                                                  426
```

574

<210> 973
<211> 542
<212> DNA
<213> Homo sapiens

<400> 973
aaaatactgc tgcaacgaga cggagttcca ggcggtgatg caggcgaacc tcacggccag   60
ctccgagggt tacatgcaca acaattacac cgccctgttg ggagtgtgga tctatggatt   120
tttcgtgttg atgctgctgg ttctggacct tttgtattac tcggcaatga actacgacat   180
ctgcaaggtc tacctggcac ggtgggggcat ccaaggacga tggatgaaac aggaccccccg   240
gcggtggggg aaccccgctc gggcccctcg gccgggtcag cgggcccccac agccgcagcc   300
tccccaggc ccgctgccac aagccccaca ggccgtgcac acattgcggg gagatgctca   360
cagcccaccg ctgatgacct tccagagttc gtctgcctgg gagggtgcca gccaacagca   420
agaaattcca gaaaatgagg agactgaaaa gggagatgac caaatatctt ctttccttgg   480
cgtaacatca aataccaagg aggcttctgt gattggaatt cagaagacag ttgatgtcct   540
ga   542

<210> 974
<211> 2870
<212> DNA
<213> Homo sapiens

<400> 974
cttcctcttc tccacgcagg cttcaacagg agatttatgg agaatagcag cataattgct   60
tgctataatg aactgattca aatagaacat ggggaagttc gctcccagtt caaattacgg   120
gcctgtaatt cagtgtttac agcattagat cactgtcatg aagccataga aataacaagc   180
gatgaccacg tgattcagta tgtcaaccca gccttcgaaa ggatgatggg ctaccacaaa   240
ggtgagctcc tgggaaaaga actcgctgat ctgcccaaaa gcgataagaa ccgggcagac   300
cttctcgaca ccatcaatac atgcatcaag aagggaaagg agtggcaggg ggtttactat   360
gccagacgga aatccgggga cagcatccaa cagcacgtga agatcacccc agtgattggc   420
caaggaggga aaattaggca ttttgtctcg ctcaagaaac tgtgttgtac cactgacaat   480
aataagcaga ttcacaagat tcatcgtgat tcaggagata attctcagac agagcctcat   540
tcattcagat ataagaacag gaggaaagag tccattgacg tgaaatcgat atcatctcga   600
ggcagtgatg caccaagcct gcagaatcgt cgctatccgt ccatggcgag gatccactcc   660
atgaccatcg aggctcccat cacaaaggtt ataaatataa tcaatgcagc ccaagaaaac   720
agcccagtca cagtagcgga agccttggac agagttctag agattttacg gaccacagaa   780
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atctctcaat tacttgataa tgaggagagt tgggacttca acatctttga attggaagcc   1020
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tgtgagtttt taaactgttc tgaaaccact cttcgggcct ggttccaagt gatcgaagcc   1140
aactaccact cttccaatgc ctaccacaac tccacccatg ctgccgacgt cctgcacgcc   1200
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tcaagaatat tgacaaggga accattatcg aacgctgcgc caggctatta ttgacatggt   1500
tttggcaaca gagatgacaa aacactttga acatgtgaat aagtttgtga acagcatcaa   1560
caagccaatg gcagctgaga ttgaaggcag cgactgtgaa tgcaaccctg ctgggaagaa   1620
cttccctgaa aaccaaatcc tgatcaaacg catgatgatt aagtgtgctg acgtggccaa   1680
cccatgccgc cccttggacc tgtgcattga atgggctggg aggatctctg aggagtattt   1740

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tgcacagact gatgaagaga agagacaggg actacctgtg gtgatgccag tgtttgaccg      1800
gaatacctgt agcatcccca agtctcagat ctctttcatt gactacttca taacagacat      1860
gtttgatgct tgggatgcct ttgcacatct accagccctg atgcaacatt tggctgacaa      1920
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caggctaaag ccaagccaca gagggggcct cttgaccgac aaaggacact gtgaatcaca      2040
gtagcgtaaa caagaggcct tcctttctaa tgacaatgac aggtattggt gaaggagcta      2100
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taaaagtcat cattgctgtt tagcttgact gttttcctca agaacatcga tctggaaggg      2460
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taagtgaagc aactaggacc aaattacaga taaactagtt agcttcacag cctctatggc      2580
tacatggttc ttctggccga tggtatgaca cctaagttag aacacagcct tggctggtgg      2640
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agcttccttt atttctggct cacagaggca gccacgaggc actacaccaa gtattatata      2820
aaagccatta aatttgaatg cccttggaca agctttttctt aaaaaaaaaa              2870
```

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        <210> 975
        <211> 2659
        <212> DNA
        <213> Homo sapiens


        <400> 975
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tcatggtgcc gtcggcgctc cctgcgcggc cccgctgagc ctcggtgcgg cggcgagcgc      180
ggtcgagatc gccatgccta cccgagtatg ctgctgctgt tccgctttgc gtcctcgcta      240
caaacgcctg gtggacaaca tattccctga agatccaaaa gatggccttg tgaaaactga      300
tatggagaaa ttgacatttt atgcagtatc tgctccagag aaactggatc gaattggttc      360
ttacctggca gaaaggttga gcaggggtatgt tgtcagacat cgttctgggt atgtttttgat      420
tgctatggag gcactggacc aacttctcat ggcttgccat tctcaaagca ttaagccatt      480
tgtagaaagc tttcttcata tggtggcaaa gctgctggaa tcgggggaac caaagcttca      540
agttcttgga acaaattctt ttgtcaaatt tgcaaatatt gaagaagaca caccatccta      600
tcacagacgt tatgactttt ttgtgtctcg attcagtgcc atgtgccatt cctgtcatag      660
tgatccagaa atacgaacag agatacgaat tgctggaatt agaggtattc aaggtgtggt      720
tcgcaaaaca gtcaacgatg aacttcgggc caccatttgg gaacctcagc atatggataa      780
gattgttcca tccctcctgt ttaacatgca aaagatagaa gaagttgaca gtcgcatagg      840
ccctccttct tctccttctg caactgacaa agaagagaat cctgctgtgc tggctgaaaa      900
ctgtttcaga gaactgctgg gtcgagcaac ttttgggaat atgaataatg ctgttagacc      960
agttttttgcg catttagatc atcacaaact gtgggatccc aatgaatttg cagttcactg     1020
ctttaaaatt ataatgtatt ccattcaggc tcagtattct caccatgtga tccaggagat     1080
tctaggacac cttgatgctc gtaaaaaaga tgctccccgg gttcgagcag gtattattca     1140
ggttctgtta gaggctgttg ccattgctgc taaaggttcc ataggtccga cagtgctgga     1200
agtcttcaat acccttttga aacatctgcg tctcagcgtt gaattcgaag caaatgattt     1260
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tcgagggatc agaataatac cggatgtagc tgacctaaag ataaaaagag aaaaaatttg     1740
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<210> 976
<211> 1505
<212> DNA
<213> Homo sapiens

<400> 976
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tctgcagcct acgctgccct ggcctcctgc agacagatag tggggttacc tggcaaggcc     180
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gcttgaaacc gggaaaactg ttcccattag gcttgttaat gtcagagtga cactattatg     600
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<210> 977
<211> 1576
<212> DNA
<213> Homo sapiens

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gagattaaat ccccagaaat ggcagaggat tggaatactt ttctgctacg gttcaatgat    180
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ccggaaagta caatgaccag cgggcaggcc cgagcttcca cccagtcccc ccaggccctg    300
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tgggtacagc cagagcccctt caacccccacc ttggacttga ggacctacct gatgggacgt   1200
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gccaccaatc cattttgtgg attttatgtg tctgtggctt aataatcata gtaacaacaa   1440
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tactaaaaaa aaaaaa                                                    1576


        <210> 978
        <211> 1694
        <212> DNA
        <213> Homo sapiens


        <400> 978
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tcggcttcta taacttctgc ctgtggaatg aggacaccag caccctacag tgtcaccagt    420
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aggtgggggcc cctgtgtcaa agaggccgag gggcagcaag ggcagccagg gcacctgtga    960
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tctagcttca ggagggtggg gagggagtga ttgctgtcat ggggccagac ttccaggctg   1140
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gtgatttatt catatattcc tgtccaaagc cacactgaaa acagaggcag agacatgtaa   1680
aaaaaaaaaa aagg                                                     1694
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        <210> 979
        <211> 2203
        <212> DNA
        <213> Homo sapiens


        <400> 979
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gccttgtgtt tcagagttta ccacctagga tgacttcagt gactagatca gagatcatag    180
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cattatttgc atcattggga tacatatgtc acttcacaag atgttcaatt tgaaggaaat   2040
accactcatt ctctatgtcc tgttgtctgt agtgtgcttc agttttttcat atggggttga   2100
gcctcctaaa tcgtggagtc agggcaagaa aggagtagtg actggtgatt cattgttgta   2160
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<210> 980
<211> 396
<212> DNA
<213> Homo sapiens


<400> 980
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cagaaatgcc caaactgttc ctgacctcac atttggacag tcttgctgtg accccttag      180
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gtgtcactta cctagattta cagcctcact tgaatgagtc actactcaca gtctctttaa     300
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<210> 981
<211> 763
<212> DNA
<213> Homo sapiens


<400> 981
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<210> 982
<211> 2172
<212> DNA
<213> Homo sapiens


<400> 982
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aaaaatccat atttcttaat aatttatgta tagcccaact tttagaacat agaatattat     180
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```

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tcaccaaaac aaccccaaca gtggtgaaga actatattaa agatggcttt tcctaagaca     780
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tattaagaaa aaaatttatt taattatcat ttatataagt ccaaaaatga tataatatat    2100
tatttgaggg gaaaaggctt cccaccgaaa tagaaataca gtagactaaa taaactagat    2160
tgaatataaa at                                                        2172
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<210> 983
<211> 377
<212> DNA
<213> Homo sapiens

<400> 983

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<210> 984
<211> 1813
<212> DNA
<213> Homo sapiens

<400> 984

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tgacaaacag tatgagatac ttatgacaaa ctcgctctgt cacccaggct ggagtgcagt     180
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ggaggattaa aatattattt taaagaaacc actgtttccc cctaaaatgt cataagagca    300
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```

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tctaatgaag atatggtcca tttgtttttc ttcctgcaat gtggtgtgca gagatgctgc    780
atatcctttt tatgggattg cgtgtgaatt tgaaccatga gacattccta ataatttgtt    840
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aggtgattca agtaccgttg ctaagctgtc aacataccaa gctgttgaaa aaattgacca    960
tttctttcag aagtaattct cagcctgtgg aataatagca ggtgaagact tcatagaagg   1020
cgacagattg atagggaggc tattgaagca gtttttctga agcctgcatt ttgagttagt   1080
ttatagtgct aatagattct atataactgt gagagtttgg tagtaaacca gtagggattg   1140
ttttctctcc taaaaatttg cacactactt cattgtctac caacttttta catattggaa   1200
aatagaaatt gcaaatacat acatgtatgg aaacatattc agattgggaa aaacaatgga   1260
cattagtttt taaaaagtta cgtggaagca agatttctat atttgttttt ttaaaggaag   1320
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gtttatgtca ttgtcttaac ttcagataca aataactgaa cagaaagttt taacctttaa   1560
tatctcatgt tctgtttttt tattcagtat tttcctttat gttaattcaa ttatatactt   1620
ctgaatggca ccttactttt tggaaacaaa ttcttctgtt atttacaaaa ataataattt   1680
ttaaaaaaca tttaaaaaaa atccaaagct gctctcgata atagtcaaca tttgcatata   1740
tatggaattt cttacttttt ttctcccaaa ctctatttaa taaacttatt ttaatgtttg   1800
tgtaaaaaaa aaa                                                       1813
```

```
        <210> 985
        <211> 379
        <212> DNA
        <213> Homo sapiens


        <400> 985
gtatttttgg ggtctcacta tgtggcttgg gctgtatcga acttctggac tcaactgatt     60
ctcccacttt ggtctcccaa aatgctggga atacaggcat gagacaccgt gcctggcctg    120
tattttttcaa tagtcatatt taataaaatt tttaaaggca taattcaatt aataaatgta    180
agatgatgag ggacctgata cagtttcacc tttcatgttt cctatgacat ctcttcagaa    240
gcgtttgttg agccactgta tgcagtgcac aatgctgcta ggcatttgtg gacaatgcaa    300
agatgatgac atcttggcct cctgggtgat ccaggaattt acagcaatgc aatccaggtc    360
caggaattta caatccagg                                                 379
```

```
        <210> 986
        <211> 876
        <212> DNA
        <213> Homo sapiens


        <400> 986
tttcgtcggg ccatggagcc cccctgggga ggcggcacca gggagcctgg gcgcccgggg     60
ctccgccgcg accccatcgg gtagaccaca gaagctccgg gacccttccg gcacctctgg    120
acagcccagg atgctgttgg ccaccctcct cctcctcctc cttggaggcg ctctggccca    180
tccagaccgg attattttttc caaatcatgc ttgtgaggac cccccagcag tgctcttaga    240
agtgcagggc accttacaga ggcccctggt ccgggacagc cgcacctccc ctgccaactg    300
cacctggctc atcctgggca gcaaggaacg gactgtcacc atcaggttcc agaagctaca    360
cctggcctgt ggctcagagc gcttaaccct acgctcccct ctccagccac tgatctccct    420
gtgtgaggca cctcccagcc ctctgcagct gcccggggggc aacgtcacca tcacttacag    480
```

```
ctatgctggg ggccagagca cccatgggcc agggcttcct gctctactac aggcaagccc    540
ctctccatgg tgcctctgca gattggctga tgtgcttgca cgaagaggtt caatgcctga    600
accaccgctg tgtatctgct gaccaacgcg tggtaggggt tgatgcctgt ggcgatggct    660
ctgatgaagc aaggtgcagc tcaaacccct tccctggcct gaccccaaga cccggcccct    720
ccctgccttg caatgtcacc tttgaggact ttctatgggg gcttctctct cctggataac    780
acacctaagc ctaagctccc accccagtc ctgccttggg tgctgaaccc catgatggcc    840
ggggactggc gtgccctaca agcctggact tggctt                             876
```


```
        <210> 987
        <211> 1884
        <212> DNA
        <213> Homo sapiens


        <400> 987
tttcggagcc aggggcaggg aaaaggcgtg ggggatccgg ctgctggggg gcggagggaa     60
aaaaaaggtc tggacttagt caccagagac tatggcgcag atatcctccg ccactaccac    120
cacagtgatt gtattccata caaaacagtt taggtggaaa ggatcacatt aaatacttaa    180
tttctgcgat tctttccctc tcaaagagtc acagttttca ggcctttaa tgaaaaagaa    240
agttaggcag tagaataaaa atttaaatag ctaaaattaa gttttaaaaa aactcttgat    300
atttaaatct ctttaaagat ataaattctt ttgaataaaa atgtaaaggg gagagtgggt    360
acatatctga acattaaaact ttaggcactt tctgggagtt gatacccaat actgtaaaag    420
tgggctgaag agttaccact aggtaaacac attaagctaa aaaatcaata accactaact    480
ctagtttcag atgcacttct atagtttctc aagggtcatt agtataccaa agtcactaag    540
aaaaactatg acagaatgcc taaagtatct tatgtgtgcc tcaatgtcca aacaaatctg    600
gcttaaaatt tccaactcaa gccatttaat agggtatgta tgtttccaat taaatgaaat    660
aaaattaaga gaattaaaag tgatagggaa aggtggtaca gaaaatctaa aaagtctaaa    720
ttagctagct tattttgata aaacatacaa aataacaaat tcacatctct taaaatatct    780
taatcagaag tcaagacagt tgtccagaaa atgtcacatt attcattgtt atctactttt    840
tatttataaa cagtggaacc aaagccacta cttgagttat acttaaattt ttttgccctg    900
ctttatccac ccaaatttgt tttcaaaact atactcaacc aaaacctatt tggcatttat    960
tgtcactaag atgtagcaaa gaaaagagtt tgccaaattt taatcaagat tagataagat   1020
tttaatacaa catactctgc tcatttgaaa taaaccagta tcttccacgg tttcttcaaa   1080
atatgcggac atctcacagg aatactgtaa atttcagtgc aaaggatgcc accccaggag   1140
gacactgttg gacttgggct tgcgttaaag ggtacacatg gaaaactgct ttaaattaaa   1200
tatctacaaa aaaggaaagc caaaaggact tgttttgggt tgaggaacaa taggagtcca   1260
cataagtctt caattctagg agcttcaaaa tgaagaaaag ggctgagatg tgttgtcctt   1320
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taatgtattc cttttgggag gattccccat aaagtttaag ttcaacatct cagcataagg   1440
atgtatgcta tagagtagct aaaatccgta aaaggagac caccaagacg caaaatgtct   1500
gtccagtgcc cagtgtgagg gcttcaaatg gtatcatttc cttccctgct gctcggtaaa   1560
ctccagcaat agctgcacca tatttgtgat gtctgagggt gaagagggcc agtaatccag   1620
cagggacatg aaagaagaga gaagacacca gtgcccacag gaatacacca taccacatct   1680
ctgggaagga gcagagggaa gtagagttgg ggcacagggt cccgttgccc acccgcggca   1740
caaccttcag gctcaggatc tgctgcagga gcccggccga cccgccgctg ccgccgctcc   1800
cctcgcgctc catcccgtcg ccattcacca cagagaaatg agggacgagc gcccgaagtg   1860
cggtagcggc cggcgccgac tcac                                          1884
```


```
        <210> 988
        <211> 935
        <212> DNA
        <213> Homo sapiens


        <400> 988
```

```
ccaggaacta ggaggttctc actgcccgag cagaggccct acacccaccg aggcatgggg    60
ctccctgggc tgttctgctt ggccgtgctg gctgccagca gcttctccaa ggcacgggag   120
gaagaaatta ccctgtggt ctccattgcc tacaaagtcc tggaagtttt ccccaaaggc   180
cgctgggtgc tcataacctg ctgtgcaccc cagccaccac cgcccatcac ctattccctc   240
tgtggaacca agaacatcaa ggtggccaag aaggtggtga agacccacga gccggcctcc   300
ttcaacctca acgtcacact caagtccagt ccagacctgc tcacctactt ctgccgggcg   360
tcctccacct caggtgccca tgtggacagt gccaggctac agatgcactg ggagctgtgg   420
tccagacaga ggggcaggcc ccagggtgga gatgatctgc caggcgtcct cgggcagccc   480
acctatcacc aacagcctga tcgggaagga tgggcaggtc cacctgcagc agagaccatg   540
ccacaggagg cctgccaact ttctccttcc tgccgagcca gacatcggac ttggttctgg   600
tgccaggctt gcaaacaacg ccaatgttcc agcacagcgc cctcacagtg gttgccccag   660
gtggtgaccc agaagatgga ggactggcag ggtccccctg gagagcccca tccttgcctt   720
gccgctctac aggagcaccc gccgtctgag tgaagaggag ttttgggggg ttcaggatag   780
ggaatgggga ggtcagagga cgcaaagcag cagccatgta gattgaatcg tccagagagc   840
caagcacggc agaggacttc aggccatcag cgtgcactgt tcgtatttgg ggttcatgca   900
aaatgagtgt gttttagctg ctcttgccac aaaaa                              935
```

```
        <210> 989
        <211> 2528
        <212> DNA
        <213> Homo sapiens


        <400> 989
ggttggaaga ttattttgag ataagtgttc agttctgggc tgggcagtcg tgccgggcac    60
gggaaattca ggttctttaa gggaaaggcc tgatgtgcta agacgaaatc tataccgtgt   120
gtagccgctt atgagaatat gaaactaagg agagccacag gtaagtatac gtctatgaat   180
gcgaattaaa acgggtgaca atataaagag agattggtgt cacaaatggt ggagtgactt   240
ttgtatttca gcagacctca gtgagaaatg gtcaccacca ctccctagat gtgtgacctt   300
gagtgagttg cttaacctct ctgatcctgt tacctcatct gcaactgggg atgagaatat   360
atatcatagc atgccctggg agaagctgtt cctgaccacc tgggctatgg tgattttgac   420
ttcctctgtg tcagaagtac ccccgtctca tgcctgccat agttgtcttt ttgttttgtt   480
ttgtgatttc agatggactc accctgtcac ccaggttgga ctgcactggc ctcaacctcc   540
tgagttcaag tgatcgtccc acctcagcct ccccagtagc tgggaccata gctgtgcagc   600
atcatgcctg gctaattttt taagtttttt gttgagatgg tggtctcgcc ctgttgctca   660
ggctggcctc aaactcctgg gctgaagcag tcctcccacc tcagcctccc aaagtgcttg   720
gattagaggc gtgagccacc attcctggct ccttggacaa tatttttattc ctcagattaa   780
gacacgtcct tgggatgggg ctgcattgga taattcaccg aaggcaccgc tgaatggagt   840
gggccctcag taaatacctg gaggaatgtg acctggccag tgaggttatt ttcttttgta   900
ggtgaaaggt gtagcagtca ctcggcctac acccacagca tcgaccttgt gaacccagcg   960
acctgactgc cttgggagaa ttgaagcgaa tgagagtggg gagtgtgaga ggtgcgtttg  1020
gtgcagcatt tctggcatgg aacagaact ggccaggagg aagtgacgtc tgggttctgc   1080
ccgcacacat tcctcgccac cttcttggtg tctgagaacc tccagcttca cctccttttc  1140
tggacccgag ggcctggcgg agcttccagc tgggaccaga cctccatgga tccactccag  1200
aaacggaatc cagcatcgcc ttccaaatct ccccgatga cagctgcaga gacttcccag   1260
gaaggtccag cgccctctca gccttcgtac tcagaacagc cgatgatggg cctcagtaac  1320
ctgagccccg gtcctggccc cagccaggcc gtgcctctcc cagagggggct gctccgccag  1380
cggtacagag aggagaagac cctggaagag cggcggtggg agaggctgga gttccttcag  1440
aggaagaaag cattcctgcg gcatgtgagg aggagacacc gcgatcacat ggcccctat   1500
gctgttggga gggaagccag aatctcccca ttaggtgaca gaagtcagaa tcgattccga  1560
tgtgaatgtc gatactgcca gagccacagg ccgaatcttt ctgggatccc tggggagagt  1620
aacagggccc cacatccctc ctcctgggag acgctggtgc agggcctcag tggcttgact  1680
ctcagcctag gcaccaacca gcccgggcct ctgcctgaag cggcactcca gccacaggag  1740
acagaggaga agcgccagcg agagaggcag caggagagca aaataatgtt tcagaggctg  1800
ctcaagcagt ggttagagga aaactgagac gtgcaccccc atgggatgga gacccgaagg  1860
gactcagacg gagccgccgt gttggcagcg cctgggtgtg ggcccatttt ggggaccaaa  1920
cagcaagctg tggtcggatg agtgccagga cctgtgtacc gggacacgtg ggagtcctcc  1980
```

```
cagcatgatg cttgactgac ccgaggaagg tcctcatgtt tcgtgcctgt cattctcgga    2040
tggctgtgag gcattccttg gcaagggacg ctgcgtacca gcggtcctca ccgcatctca    2100
catggctcct gtgatgcatg ttgtcgcttt cccacccggg atctccatct ctcttccctt    2160
cctgctgtca gtaagagatc acatgtctgt gtagtgtgaa tgccttgtcg ctgtcctgtg    2220
cttttgcacc attgagttga ctgcctctga gaagcagcac taggcctgtt gaaatgcaat    2280
gtgctgccct gagatccagt ttcaagaatg ggcaggtaaa cgcagtgtgg gaaaggaatg    2340
tggaatgaga acttggtggt tcaccgctgt actatttgtg taaatgttta cgtatgtgat    2400
aagctacatg tatgtaaatg ttgcaatacc cctaacagtc gagtagtagt ctcccttaca    2460
ggaatttttg acggggttcc tcatcatcaa taccaaataa atatatgtag gaatggaaaa    2520
aaaaaaat                                                              2528
```

```
        <210> 990
        <211> 703
        <212> DNA
        <213> Homo sapiens


        <400> 990
ggcacgaggc attatggtgg cagatagacc cctcatgtca tgtggctgct tgttacgctc      60
agtcctcgtc tcctgctttc tccctctcat ttcactctgg agggtcccca gatagatcag     120
gctcactctg aattgcaggt ccttcctctt gttcgcccct ctgctgtgcc tttactccag     180
agagcatcat ggctaagatc cagatgtctg catttgccca agacagtcct ggtttgaatt     240
tgtgaaccca tatgactatt aatagtgtcc ccttccagtc tcagaggtgt cctgtattgg     300
atgataaatg acatggccac ccttcccaca gctcgctctc tcgcttcctt caggtcttgc     360
ctgaattgcc atattttact tcagcactcc cctcctatcc tctctaccta atatttctcc     420
attgtgccac ctggcatgct agattttaa attttggact tttttattg taaggtccat        480
gactgtcagg attttttggtt tgctcatgac tgtattcccc gagcttaaaa cagttcctgg     540
aggatgggcc aagggctcac gccttggatc ccagcacttt gggaagccaa ggggggcgga     600
atcacccggg gggcggagcc tcaaacccac ccccacgaac atggagaaaa ccgccctccc     660
ctcctttgct tccacacacc atccccggct caggtggccg cac                       703
```

```
        <210> 991
        <211> 335
        <212> DNA
        <213> Homo sapiens


        <400> 991
cacggactgg cctctcatgg gaagatgtct ttctttgggc attttgagac agggcctttg      60
ctgtccatgc tggagcgtgg tggcggagtc agggctcact gcatccttag ggggctcagg     120
ccatcctgcc acctcatgct ctaaagaagc tggaaccaca ggtgagtgca tgcaccacac     180
ccagctagga attcaaacct tgaggaccta ttatatgcca gattctgttg aattatcaga     240
gaccatgtct ggctgtaact ggctcccaac ccaacaaaca caaagttggg ctaacattct     300
tagagtatat ttaacactaa aatacagatt ttcag                                335
```

```
        <210> 992
        <211> 447
        <212> DNA
        <213> Homo sapiens


        <400> 992
atcatcagtt tgggccgcta tccagccaca gtcaccccag cccacgtaac catcctgccg       60
```

```
tctcaaacgc ccctcactcg cttggcatca tgcctctgcc acctccttga caccaaaact    120
gtcacaggtg tccctcagct aaataccgac gcccctttag atcctgtcca cgccaggcat    180
agacgcccct ctcgggaccc ctcaactctt ggcaacaaca ctccttcaga cccctccagc    240
caggcctcga cgacccccag gacccaacat ggcccagacg ccccctcccc cttacctgcg    300
ggggttcagc cctggctgac aagggggttgg gcagcgcctg gaggagcagg agcgccatgc    360
cacccaggag ccttctcctc tccatccccc tcctgctcct gatcctccgc cacggcgccg    420
ccacctccct cctcctcctc ccacccc                                        447
```

```
        <210> 993
        <211> 1038
        <212> DNA
        <213> Homo. sapiens


        <400> 993
tggctcagga gagcatttat aaacttctcc tccaaccaca atatttactt gaggatccag     60
tccagcccca tcaattccta gggttacatg ctcctttttt ttccagcgag gatgaagggg    120
gttggttatt actagttcta aggggttaca ctgaccactg gtacaggaag ggccactttt    180
ccttttctga aggtggacag gatcctttc attttttgtc caagtagcct aagtgacaca    240
agaccagtat ccacgttcat ttccacacag ccctaattca tcacaaatgt acttattttc    300
tgccatatag cctctttcct aattaagaga cccacatcct attcttaact tattactatt    360
aatgacagca caggcatcaa attttaaggt gacttctttg ggcacccctt tttcttctgt    420
tttggctaac actttactca tatagtttat gagcccccac cagtcctcag tccttagtct    480
tattttaaaa actgtggtca tgggaggctc agatgggtca taacacatca ggttggtcat    540
ttcctgggct atataccttg tatagaataa cattatacaa acaagttctt tttagagttc    600
cagtatactt ataataacca taaaataata ggactgtagc aaccttttgt cctatctcag    660
tgacttgatg tatacactgg gaacagtcct cagtctgagg aaggtcagtt gaagtcctta    720
ctgtacaagt ccaaatttta aggaaaatga gtcctgcgat gagttttctc atgcttcggc    780
catgcgtggg gccagtcagc ctccgggtgt gactggagca gggcttgtcg tcttcttcag    840
agtcactttg caggggttat ctaggcttgg tctcacctcc caggtctcag gtgctgcagg    900
tttttacctgg ctgtgttgga tccaggctgg gattccctct atctttacgg ctgtgggagt    960
ggtcaagatg atggtctggg gtccttttca ccgtggccgc aaggagccta tgttccaatc   1020
cttgatccac acctgatc                                                 1038
```

```
        <210> 994
        <211> 1459
        <212> DNA
        <213> Homo sapiens


        <400> 994
gcggtggaat tcgctggcca gctcgctctc tattcctgtg atgtctcctc aactagcagg     60
ctgccctggg cttattcatg tatcacaggg ttctagagtg gcaagagaac aagtgtcagt    120
gcacactctt taagtctttg cttggatggc gtttgctagt gtcctgttgg ccagagcaag    180
tccagctgta gtgagagcgt gcctaagcag atgcgcgtat ggggtgggga gtgattgtcc    240
tcacttggtc acacttgctg ctctaatact cttctgggtt taaggcaaat gcagatttca    300
gtttatctta aacatgtatt ctgctcatgt attctggtac tttccttaga aggtatggca    360
aattcacatt tgaataaaata ctcacgaaaa tggtgatcca gcccccctgc tctgcccctt    420
gttagctgtg ggaaactttg gacagatgct gaacatttct gccattgtgt ttctgtttct    480
tccttttcga agtattgagt ggggtgggag ttagcatggc taaaggatca ttagtttatc    540
gtcagatctt tgttttgaag gaatatactg agtgtactac cttcatttcc cccagttctg    600
agcccatggt tccataatcc cactcatact ggtgtctgat gcatagcggc tcactcacag    660
agacaacaga ttccaaagtg cttttacagt tctaacattc tgtacctcgt gatctactga    720
gcttagtttg tcaccagaag ggggcaccat taggcaagtt ttttgtttct gtttaaaatt    780
atattctttt aatcttgttc ttttacatgg ctcagtcttc aaaaatctca gttgaagtac    840
```

586

```
tgtgttttta tctttcacaa gtttatcctg taattaaaat tctgtcacat ttgtggcatc       900
tcaaaatgta aatgataatg cagcaagtga ccagccatta gatttgtttc ctgtggctgc       960
cataacaaat caccacaagc caggaggctt caaacaacgc aagtgtcttc tctcacagtt      1020
ctggaggcca caagtctgag agcgaggcat gagcagggcc ctccctctga aagctctgag      1080
aaaggatctg tcttcacctc tctcagctcc gggtggctgc tagcaatcct tggtttgtag      1140
atgtgtcact ccagtttctg cctccattgt cacgtagctg tcctcacatt cacatggcct      1200
tttttttttt tttgaaaaaa ggtctacttt tttttccccag cccaaagggc cggggggggaa      1260
ttggggttaa ttggacccctt gtcccctgg gtggggggaa tttttttgccc cacccccccc      1320
aaacaaaggg gcccccctgc attccccggt aattttttga aatttttaaaa aagaacaggg      1380
gttcccaatg ggggcagggg ggggggttaat cccgggggcat taaaaaccccc cccccaacccc      1440
cccccaaagg gggggataa                                                    1459
```

```
        <210> 995
        <211> 650
        <212> DNA
        <213> Homo sapiens


        <400> 995
gacagaaaca gtgcttgctt tcatgtggct tttcattgcc tcaaaatgta tcttcctctt        60
aattgttcct aatttttatct ttgttttctg gagaaaagtt ttttcacatg acaggctaaa       120
tattgcctat tcgtttgaac tttcctcaaa gtacatcttt atttttattta tctaaagaat       180
aagttactta aagttcatag aagttgctta acttagtagt gcattatcag ggaatgaatt        240
ctcagataga tgtctcatct ttgaaagtgt aattgccctt tgagagtatc atattaaatt        300
ctaattcata aaactggaat ataccacctc tgcaccgtag caatgtgaac ataattctag        360
tgcagagttg tgctgagaat cttgttcaga gacaaaagtc aaaataagga ggccgggcgt        420
ggtggctcac gcttgtaatc ccagcacttt gggaggcaga cgcgggcaga tcacttgagg        480
tcagaatttc gagaccagct tgggcaacat ggtgaaaccc cgtctctacg aaaaatacaa        540
aaattagttg ggcgtggtgc tgggtgtctg taatctcagc tacttgggag gctgaggcag        600
gagaatcgct tgaacccagg ggtcggaggt tgcagtgagc caagattatg                   650
```

```
        <210> 996
        <211> 742
        <212> DNA
        <213> Homo sapiens


        <400> 996
ctgtggtgga attcgtgggg ctggtgggtt ctggagtatg gtagaagtgg tctcacttct        60
tcatctttat gctgtagcct gtgccagaaa agggcccttt ccaaacacaa aggacctttc       120
cggttggacg ccgtcctctg ggagagagga gctctggaaa gggaaacggg cggctgcggc       180
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agtgctggag gaggggcctt tggacatcac caactaaagg cttgattcgg agtgtggcca       360
ggcaccacgg ccagcccagc aggacacagg atgccggagg agaagaaggc agcgggcctg       420
ccaatcatgg tgccctgctt cagagtgagg cagttgggag ggccttccgg aagacatgga       480
ggaaagtcag ggcagccgac gaagctggaa gcccagacgt ggagtcggct gccctgggtt       540
ccactcacag tgccacatac cagctgtgtg gctccaagca agttcagctc tgatctgggg       600
acaactgccc tctgtgggag agctggtccc acgactatta atgcgggcgc aaggggacgg       660
ccacttacca ggcggcctct ttcagcacta cccaagccac ctgccttccc tcgtactggc       720
tgacgcccgc acgacctgcc ac                                                742
```

```
        <210> 997
```

```
        <211> 745
        <212> DNA
        <213> Homo sapiens


        <400> 997
cctggcgtat ttcgtgcatt cctcatgcca gtcagagcac ctggtgcttc ttatgtgtat        60
gttagagtgt ggcatccctt ttcccagaca catggtggac tcacataacc tgtccaaggt       120
aggagagtct catgccctgt tgctaattgt ttctggtaca ggaggtctca aaccttaagt       180
ttgacactga tatttagtgg attcatgttt tagcactctt ctttccctt ttactaacca        240
tactggctgt gtagtgtagc accctcgagc tttaaaatca gcctgatgtt agttcccaca       300
ttcttccttt tatctctcct agaccagagc tgtctgtcca tatgtgttag ccaggattac       360
ttctcttcaa tagtggtcca aatcagacaa attgggtcac tatgtttaaa caaatcactg       420
taaagtacaa tttttagata ccagaggaca ttttaaaata tgactatttt atgggttcat       480
gatgagatac cataaaaata atgctccagg taaaccgttc cctggaaata aagatggatc       540
aaagcaggat ctcaaataag aacaagaata cattaaaaaa tggttcttgg ggccaggcac       600
ggtggctcac gcctgtaatc ccagcacttt gggaggccaa ggcaggggga tcacctaagg       660
tcaggagttc gagaccagtc tggccaacca tggtaaaacc ccgttcttac taaaaatacc       720
taaattagct gcgcgtgggg ccccg                                             745



        <210> 998
        <211> 1040
        <212> DNA
        <213> Homo sapiens


        <400> 998
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tgacctcaac tacatggtct ccatgttcca gtatgattcc gctcatggca agttccacgg       120
caccatcaag gctgagaacg ggaagcctgc catcaatgac aatcccatca ccatctcgca       180
ggagtgagat cccacccaaa tcaagtgggg tcatgccagc actgattata ttgtggcggc       240
caccagcatc tttgccagca tggagaaggc tgggatcac ctagatgggg gagccaaaag        300
ggtcatcatc actgcccct ctgctgatgg ccccatgtgt gtgatgagtg aaagctatga        360
gaagtactgc ctgcagtaag agcttgctac tattaatatc atcattttag taatcatact       420
ctgaatcttg gcaaaaaga aagacggtt ctgaaaatca agtctgtctg tttctgccag         480
aatactcatg agacagtttg gtcctaaagc agcaattagg agtaaagaac caaaacagtg       540
tgatcatcca aaaagtcagc ttctggctta gctccatcag gatcccaatt ctctacggag       600
tcgagaatta tgaaaactaa agctatttac agcttttaac aattgagtaa aggatactgt       660
taccagaatt gggagcatat ttggtgctct ctacctgggt tctccagaat ttggaaacta       720
tttagtcact gaaaactaag ctgtgttttc ttaaaaccct gcaaactgaa gccagacaac       780
ttgaacttca gaagaaaata acagcaacct atttacgtac ataagccact ttcatacctg       840
cctactaatg tatggacttc agagtaatgt ggcttatatc gatttttcta ggattgttct       900
tttgtttgtt gttgttttttt ctcccttcct ccctgctatt ttctcttcac agaatgtgag       960
acttcacaac ctactaaaaa tgagcttttg ggacttaccc atctaggaat aaaccatcat      1020
agctatgaga aatcagatga                                                  1040



        <210> 999
        <211> 2528
        <212> DNA
        <213> Homo sapiens


        <400> 999
ggttggaaga ttattttgag ataagtgttc agttctgggc tgggcagtcg tgccgggcac        60
gggaaattca ggttctttaa gggaaaggcc tgatgtgcta agacgaaatc tataccgtgt       120
```

588

```
gtagccgctt atgagaatat gaaactaagg agagccacag gtaagtatac gtctatgaat     180
gcgaattaaa acgggtgaca atataaagag agattggtgt cacaaatggt ggagtgactt     240
ttgtatttca gcagacctca gtgagaaatg gtcaccacca ctccctagat gtgtgacctt     300
gagtgagttg cttaacctct ctgatcctgt tacctcatct gcaactgggg atgagaatat     360
atatcatagc atgccctggg agaagctgtt cctgaccacc tgggctatgg tgattttgac     420
ttcctctgtg tcagaagtac ccccgtctca tgcctgccat agttgtcttt ttgttttgtt     480
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tgagttcaag tgatcgtccc acctcagcct ccccagtagc tgggaccata gctgtgcagc     600
atcatgcctg gctaattttt taagtttttt gttgagatgg tggtctcgcc ctgttgctca     660
ggctggcctc aaactcctgg gctgaagcag tcctcccacc tcagcctccc aaagtgcttg     720
gattagaggc gtgagccacc attcctggct ccttggacaa tatttattc ctcagattaa      780
gacacgtcct tgggatgggg ctgcattgga taattcaccg aaggcaccgc tgaatggagt     840
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ggtgaaaggt gtagcagtca ctcggcctac acccacagca tcgaccttgt gaacccagcg     960
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cggtacagag aggagaagac cctggaagag cggcggtgga agaggctgga gttccttcag    1440
aggaagaaag cattcctgcg gcatgtgagg aggagacacc gcgatcacat ggccccctat    1500
gctgttggga gggaagccag aatctcccca ttaggtgaca gaagtcagaa tcgattccga    1560
tgtgaatgtc gatactgcca gagccacagg ccgaatcttt ctgggatccc tggggagagt    1620
aacagggccc cacatccctc ctcctgggag acgctggtgc agggcctcag tggcttgact    1680
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acagaggaga agcgccagcg agagaggcag caggagagca aaataatgtt tcagaggctg    1800
ctcaagcagt ggttagagga aaactgagac gtgcacccc atgggatgga gacccgaagg     1860
gactcagacg gagccgccgt gttggcagcg cctgggtgtg ggcccatttt ggggaccaaa    1920
cagcaagctg tggtcggatg agtgccagga cctgtgtacc gggacacgtg ggagtcctcc    1980
cagcatgatg cttgactgac ccgaggaagg tcctcatgtt tcgtgcctgt cattctcgga    2040
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catggctcct gtgatgcatg ttgtcgcttt cccacccggg atctccatct ctcttccctt    2160
cctgctgtca gtaagagatc acatgtctgt gtagtgtgaa tgccttgtcg ctgtcctgtg    2220
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gtgctgccct gagatccagt ttcaagaatg ggcaggtaaa cgcagtgtgg gaaaggaatg    2340
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aagctacatg tatgtaaatg ttgcaatacc cctaacagtc gagtagtagt ctcccttaca    2460
ggaatttttg acggggttcc tcatcatcaa taccaaataa atatatgtag gaatggaaaa    2520
aaaaaaat                                                              2528
```

```
<210> 1000
<211> 399
<212> DNA
<213> Homo sapiens


<400> 1000
ccatgtgcga gaactgtgcc tggccgatgc ctccagcaaa caccaaggcc cagtctggaa      60
gccaggagca accagggaag gtgagagcat aggcagccag gccgcagaaa ggcaggacat     120
aaaacatgta catcagcatc tgcaccttag ggtaggccac agggtcccgc aggtatggct     180
catactggta gatatagaca aagcaggcat ctgtggggca atcaagcacc accaggcccc     240
ggaacagagt gaagaagcca gcaaggatga gatatatgac aagggccagg tcagccggac     300
gctgcaggag tccctttctt tgttcctctt gcaccatgtt ggcggtgcag cgggttagcg     360
cccggggctg gctgaagacc ttcatgccag cccagcatg                          399
```

```
        <210> 1001
        <211> 1058
        <212> DNA
        <213> Homo sapiens


        <400> 1001
tttcgtgatg aggatgggag agcctggcga gctgaaaccc gagctcccgc tcagctgggg          60
ctcggggagg tccctgtaaa acccgcctgc ccccggcctc cctgggtccc tcctctccct         120
ccccagtaga cgctcgggca ccagccgcgg caaggatgga gctgggttgc tggacgcagt         180
tggggctcac ttttcttcag ctccttctca tctcgtcctt gccaagagag tacacagtca         240
ttaatgaagc ctgccctgga gcagagtgga atatcatgtg tcgggagtgc tgtgaatatg         300
atcagattga gtgcgtctgc cccggaaaga gggaagtcgt gggttatacc atcccttgct         360
gcaggaatga ggagaatgag tgtgactcct gcctgatcca cccaggttgt accatctttg         420
aaaactgcaa gagctgccga aatggctcat ggggggggtac cttggatgac ttctatgtga         480
aggggttcta ctgtgcagag tgccgagcag gctggtacgg aggagactgc atgcgatgtg         540
gccaggttct gcgagcccca aagggtcaga ttttgttgga aagctatccc ctaaatgctc         600
actgtgaatg gaccattcat gctaaacctg ggtttgtcat ccaactaaga tttgtcatgt         660
tgagcctgga gtttgactac atgtgccagt atgactatgt tgagggttgt gatggagaca         720
accgcgatgg ccacatcatc aagcgtgtct gtggcaacga gcgggcagct cctattcaca         780
acataaggat cctcacttca cgtccttttc cactcccagg gctgtccaaa attttgacgg         840
gtttccatgc cccttttttga gggagacaac cacgctggtc ctcataccct cggttccatt         900
aacggaccca ggctcctttt acagagcgtg gtctttcaa tgcggccccc gctctccgcg         960
cccattactt ggcagaacgc tctctcaaaa attcttgttg aggcttcggg gtcgtcccag        1020
acgaccctac atgtctacac tcactcccctt ctagtccc                              1058



        <210> 1002
        <211> 586
        <212> DNA
        <213> Homo sapiens


        <400> 1002
ggttttacca tgtttttccag gctggtctcg gactcctgac ctcgggtgat ccgcctgcct          60
caggttccca gagtgctggg attataggca tgagccatgg cacccggcca gtagcttcaa         120
tttttttgtat ttagtgggga tgaaaaaaat cttatttaac tagagtatat actatggtat         180
ttgcttgggg tttagcagtg aacaagacat ctctggtccc catcttcatg gaccttagtc         240
tggcagggaa gatttacatt aaacaaagga tgagaatgga agagaacttg cttggtgata         300
atgaggtcaa agaagagaaa gatcaagctg ttaaatggca aactttgagg tggtgaggag         360
gactgatatg ggtgtaaagt cttaatgaag gaggaaaag tgactgaaga ggtagacagt         420
tgagaaatag ttggtaaaag gtgatagtgt tgatttgagc tcaggtgaac aagcatttt         480
ataagggct agaggaagaa tggtccagaa atggctttga ggaatgatga aaacaccaac         540
atcaatactg gactcttaag gtgtatgggc tgtgtagatc tcattc                        586



        <210> 1003
        <211> 401
        <212> DNA
        <213> Homo sapiens


        <400> 1003
ctcccagccg ccgcccgggc ccgcgcgctt ctccgccgcg cttcgctcgt ctcctctcga          60
ccccacaccg ccggtcgaca tgatccgctg cggcctggcc tgcgagcgct gccgctggtt         120
```

590

```
cctgaccctg ctcctactca gcgccatcgc cttcgacatc atcgcgctgg ccggccgcgg    180
ctggctgcag tcgagcgacc gcgtccagac gtcctcgctg tggaggagat gtttccttcc    240
acaggggcgg cggcggcggc agcgggtcct aagaggacgg ctgccacagc ctcatggagt    300
acgcgtgggg tcgagcagcg ctgccatgct tttctggggc gtcagcatcc tggagatctg    360
tttcatcctc tccttcttcg tcctgtgtgt accccagata c                        401
```

```
            <210> 1004
            <211> 666
            <212> DNA
            <213> Homo sapiens


            <400> 1004
accttggcac gaggcctcgt gccactgctg gataacaaca tgaatatcaa tttagcttat     60
ttcggttttg gaaatttctt taaaaggggg gaactgctgg caacatggtg tggcagcccc    120
ccttatgcag ccccagaagt ctttgaaggg cagcagtatg aaggaccaca gctggacatc    180
tggagtatgg gagttgttct ttatgtcctt gtctgtggag ctctgccctt tgatggaccg    240
actcttccaa tttttgaggca gagggttctt ggaaggaaga ttccggattc cgtatttcat    300
gtcagaagat tgcgagcacc ttatccgaag gatgttggtc ctagacccat ccaaacggct    360
aaccatagcc caaatcaagg agcataaatg gatgctcata gaagttcctg tccagagacc    420
tgttctctat ccacaagagc aagaaaatga gccatccatc ggggagttta atgagcaggt    480
tctgcgactg atgcacagcc ttggaataga tcagcagaaa accattgagg taaagtgatc    540
agagatttcg gggttctact gcacttagct acttgaaatt tcatgctcac acctgtcatc    600
ctggtctttt agcacatgta tctccagcgc ctaggcgtac tgttcagtgt tccctataga    660
tgacat                                                              666
```

```
            <210> 1005
            <211> 1968
            <212> DNA
            <213> Homo sapiens


            <400> 1005
tttttttttt ttcatttgag acggagtctc gctctgtcac ccaggctgga atgcagtggc     60
acgatcttgg ctcactgcaa cctctgcttc ccgggttcaa gcagtttcct gcttcagact    120
tccaagtagc tgggattaca gacatgccac catgccaggc taattttttt aatattttta    180
gtagagatgg ggtttcacca ttttggccat tctagtcttg aactcctgac ctcaggtgat    240
ctgcccgcct tggcctccca aagtgctgac attacaggcc tgagccactg cgcccagcca    300
ataccatgag ttttaagcct cacatcgtca cttgctgtca ctgccagtgc ctgtttttatt    360
catattgctg gacaacagac atatgccacc aattgtatga ttaataaagt cttttttctgg    420
ccattttgtc cattataaag gaaataaact aattgttaac ttgcatagat tacttcttag    480
tttcctatgc taccaccact gccaagggag aaaaaaatac atcattttgt aatgtcttta    540
gtatttcttt ataactagtg ttaaggtttt gttaattttta ttgtatacat ttgtaacatt    600
tattaggagc ctttttaggtt ccaaaacaaa caaaaggcat aaaaaagtct agcttagaac    660
cactttcac ttgctttcat ttttaatttt attcacttaa cagctaacat ctttcttgtt     720
tcttgttttt tccattatat ggttatcgat tcaactcttg ctatattcct taaatttgta    780
tgtatcatca gaagaaagag atgaacaatt tagtgtagat atttttattct ggagaataat    840
attcaattaa attatttcta cagcaggcca gtaacaacta gattatttgt cctttctcag    900
tataattttta aagagcattt tgtttttattg tcacaatttg gtaccactag tcccaggtaa    960
ccattgggcc aaaggatcag ttgagaaaca gttaaggatg aattagcata agttatggaa   1020
cagtgttaga aaacaactca aaagtatatt ctttattaat gaggtggtca ttattacatt   1080
tgtgtcaatg aagggcagtg tagttatttt aaaatgacta atatttctc cccaaataca    1140
gaataattca gatgggcaac caagttttca agagactgct gtaggtgaag tctgtctagc   1200
caaggcagaa cacttacagg agtccctaac tgtgccaccc ttggaatggg ttagtgtaca   1260
ggctcagaat attgtggatt acagttttttc agagaaaact accacagatg tagacaaaaa   1320
```

591

```
tgatctctga aagcattgcc agcagccagg tatgttcctt agatttccac ttaggtttgg   1380
cattttggca gataagctaa tcttgtataa agcatcacat tttactatgc ttagtgttcc   1440
tgggttgtat ttatctacat tattagaggg aatttttatt ttaaaaaaat tgtcattcat   1500
gagaagaatg ggagttcatg ccacatagta tttttaccaat ttatataaag tgggaaaagt   1560
ctttaatact tcatgatcac ttgaattaaa gttttttgtat ctctggaaag tagaatagtg   1620
ctttcatttg aatgaaaagt gttttatagat tcagaaagag agatgatatc tttgtatctt   1680
gatttatata cagaccattt cagaggaagt taaatgtctt acaaatccaa tactttctaa   1740
tgctctaaca gtgttggcta tttaaaagaa catgtggcaa gttctatatg aatattcttg   1800
gtcatctcga ctaattctga ggcaatgatg gacagagatg ctacttctta tttaactcta   1860
ggcatgttga cttttcaaag cggtttcctt atttctaaac agagatgatg atcaatgagt   1920
tactaattct ttagaggaaa aaatgcataa tttgagtgtg gaagtgat             1968
```

```
        <210> 1006
        <211> 380
        <212> DNA
        <213> Homo sapiens


        <400> 1006
tctcggagcc cccagcccgg gcaggagtgt ggaaagtgcc gaaaccgtgc tgaaaatgca     60
gagaggccag gacccgatgg ctgcgcgcac ctgctgctcc ttgtcgcaac atctgctgac    120
tcccgaccac ccggaaaacc aggaccagaa cctgcaggcg aaccatattt acctatacgg    180
aggctgatga gagctcgccg acgtcatggg cataggtgac cgctgtgaga, acaagataac    240
gcctacacca ctggtcacat gttccacatt gattttggcc gcttcctggg ccgtgcccag    300
atgtttggca acatcaagcg ggaccgtgcc ccctttgtct tcacctcgga catggcgtat    360
gtcatcaacg ggggtgacaa                                                 380
```

```
        <210> 1007
        <211> 752
        <212> DNA
        <213> Homo sapiens


        <400> 1007
gtctcactcc attgcccagg ctggagtgtt caagtgattc tcctgcctca gcctcccgag     60
tagctggaat tacaggcgcc caccatcaca cctggcaaat ttgtgtattt ttagtagagg    120
tggggtctcg ccatgttgcc caggctggtc tggaactcct gacctcaggg gatcctcccg    180
tctcagcctc ccaaagtgct gggattacag acgtgagcca ccgtgcccgg cctgccttcc    240
ttctttgttt cccacacctt catctctgca tcctgcctct tgaagtcttc atcttcatca    300
gagtcacatt cggggaactg gtagatgtgg atctcctctt ccttcaactg atcccggatc    360
tcagggaaa cagatataga gacagtgtga aacgggccac aatgacagac atttcatgac    420
cagagacagt gagacacaga gatactgggt ggtcagagac agagagaaag acatgaaaga    480
cagagatggg gagagatgga catacaggaa gacaaaaaca aaatctcaga gacatagatg    540
gtgagaaaca caagattcta agatggggca gacattaaga gaccaggaga agcctgggca    600
atatagctag atcccatctc tacaacaaat atacacatat attttgaaac aaggtttcac    660
tctatcaccc aggctggagt ccagtggctc catcttggtt cactgcagcc tcaacctctc    720
aggcccaggc gatcctcccc cctcctgcct cc                                   752
```

```
        <210> 1008
        <211> 1145
        <212> DNA
        <213> Homo sapiens
```

```
        <400> 1008
caatgatatg ctcttctaca ctcttaaaaa ttatagacaa ccccaaataa cttttatttta          60
gtggtttaa caatatttac catgtctgaa atatgataaa cattaaaatt agtattttgg           120
aaaaatgcca tattagaaac tgatgattta aaagtaacaa caatgaatcc attacatgtg          180
aacatactgt tttttgttt gtttgtttgt ttgttttgag acggagtttc actcttttgc          240
ccaggctgga gtgcagtggt gcgattgcag ctcactgtag tcttcgcctc ccaggctcaa         300
gtgattctca tgcctcagcc tcctgagtag ctgggattac aggtgctcac caccacccc          360
ggctaatttt tgtagagatg gggtttcacc gtattggcca ggctggtctt gaactccaga         420
cttcaagtga tccaccacc ttggcctccc aaagtgctgg gattacgggc atgagccact          480
gcaccaggcc aacatacttt ttataaaaac agctgtcttc tctaaaacaa caaaaaaatg         540
tagataatag tagtatcatt ttatagtttt gcaactctct ttaatgtttg gcttaataaa         600
agatagttgg attctcgtat ctgttttgt attcagtctg ttgtggatgg tgatttgatt         660
gaagtaaatg aaggaaatcc agctacatac agatttggag ttggaaaaaa tagtatttta         720
ataccttt tagatcatgg tggatactct tctttgttt ggcctcaaaa ttagaacaaa           780
ggcagtttct gaaaataatt gtatgtggtg aaaaattaat gaatcttata tggaccatac         840
ttttaattta gaatattggt ctaaaaaaaa aaaggggggc cctttaaaaa caaatttagt         900
acgggcgtgg atgttaactt ttttggggcc agattgttcg ggcgggtgta caggggaagg        960
ggaaaacggg tggggctagg acgtgttgaa caaatgacgt gctcgtgctg cgaccgacc        1020
tcttgtacga gaggtaatgc gattgggaac gagtgatggg tgcgtcgatt ggtcgaggcg       1080
tgcgatgcat gcaatggggc gcttaggcgt tgggtaggat gggtgggacg gatcgaacgt       1140
tctcg                                                                    1145


        <210> 1009
        <211> 737
        <212> DNA
        <213> Homo sapiens


        <400> 1009
actgtatatc taaattgcag tgtcacccct cccatgctcc acatttcttc agcctttcac          60
tgctatgctt ttcttccact ttttgctctg acacataatt tcattttctt attttattta        120
ttatctctct cccccaaact agaatgtaaa ttccaggaag gcagagattt ctatctattt        180
tttttgtct tccccatatt ctggcatgtc tggcatagaa aaggcattta gtaaacattt         240
gttaaatgaa ttgactatct tttctctgca aacttgttcc tcaaattctg ccaaacctaa        300
attgaaacaa gcaggtattg tattttggta caagtcctgg ggctgtggat taaatccaag        360
agcattgatc catattttc aggggaatct cacattataa ataatgcggc atcgcttggg        420
taaaaacttt tgtgaaagac taaatatgac atgagtctgt ttaaggaagg cgttaaatac        480
gctcagacta cctctggcga attagattta tatttacatg ccctgttga taaggcctta        540
tcacaccacg agcaccttca cttaataaca gtgttaagcg gggcggtatt tcttttccac        600
tcacaccggc cagcgccatg ccttctatg tctcacgcac aagcatccct ctacgtcatc        660
cacgcccgcc tccacactcc ccccgctccg caccgttccc acatagtcgc caccgccatg        720
tccccgctcc cgccccc                                                       737


        <210> 1010
        <211> 79
        <212> PRT
        <213> Homo sapiens


        <400> 1010
Met Pro Val Trp Leu Gly Gly Thr Phe Ala Pro Leu Cys Leu Ala Cys
1               5                   10                  15
Arg Ile Ser Asp Asp Phe Gly Glu Cys Cys Cys Ala Pro Tyr Leu Pro
            20                  25                  30
```

593

```
Gly Gly Leu His Ser Ile Arg Thr Gly Met Arg Glu Arg Tyr His Ile
        35              40              45
Gln Gly Ser Val Gly His Asp Trp Ala Ala Leu Thr Phe Trp Leu Pro
    50              55              60
Cys Ala Leu Cys Gln Met Ala Arg Glu Leu Lys Ile Arg Glu  *
65              70              75      78
```

```
        <210> 1011
        <211> 83
        <212> PRT
        <213> Homo sapiens


        <400> 1011
Met Ser Leu Pro Trp Thr Phe Thr Val Leu Ile Leu Ala Pro Ser Leu
1               5               10              15
Ser Gly Ser Leu Ser Gly Lys Ser Ser Thr Cys Ala Pro Ala Pro Ser
            20              25              30
Ala Pro Gly Ser Arg Ser Ser Gly Pro Arg Arg Asn His His Trp Ile
        35              40              45
Ser Arg Tyr Thr Glu Ala Glu Pro Leu Trp Lys Ala Gln Asp Ile Ser
    50              55              60
Thr Phe Cys Pro Ser Val Ala Val Thr Phe Arg Gly Asn Ser Val Asn
65              70              75                      80
Phe Ala  *
    82
```

```
        <210> 1012
        <211> 131
        <212> PRT
        <213> Homo sapiens


        <400> 1012
Met Ala Ser Glu Val Val Cys Gly Leu Ile Phe Arg Leu Leu Leu Pro
1               5               10              15
Ile Cys Leu Ala Val Ala Cys Ala Phe Arg Tyr Asn Gly Leu Ser Phe
            20              25              30
Val Tyr Leu Ile Tyr Leu Leu Ile Pro Leu Phe Ser Glu Pro Thr
        35              40              45
Lys Thr Thr Met Gln Gly His Thr Gly Arg Leu Leu Lys Ser Leu Cys
    50              55              60
Phe Ile Ser Leu Ser Phe Leu Leu Leu His Ile Ile Phe His Ile Thr
65              70              75                      80
Leu Val Ser Leu Glu Ala Gln His Arg Ile Ala Pro Gly Tyr Asn Cys
                85              90                      95
Ser Thr Trp Glu Lys Thr Phe Arg Gln Ile Gly Phe Glu Ser Leu Lys
            100             105             110
Gly Ala Asp Ala Gly Asn Gly Ile Arg Val Leu Val Pro Asp Ile Gly
            115             120             125
Met Val Ile
    130 131
```

```
<210> 1013
<211> 231
<212> PRT
<213> Homo sapiens


<400> 1013
Met Ile Gly Thr Ile Phe Leu Trp Ile Phe Trp Pro Ser Phe Asn Ala
1               5                   10                  15
Ala Leu Thr Ala Leu Gly Ala Gly Gln His Arg Thr Ala Leu Asn Thr
            20                  25                  30
Tyr Tyr Ser Leu Ala Ala Ser Thr Leu Gly Thr Phe Ala Leu Ser Ala
        35                  40                  45
Leu Val Gly Glu Asp Gly Arg Leu Asp Met Val His Ile Gln Asn Ala
    50                  55                  60
Ala Leu Ala Gly Gly Val Val Val Gly Thr Ser Ser Glu Met Met Leu
65                  70                  75                  80
Thr Pro Phe Gly Ala Leu Ala Ala Gly Phe Leu Ala Gly Thr Val Ser
                85                  90                  95
Thr Leu Gly Tyr Lys Phe Phe Thr Pro Ile Leu Glu Ser Lys Phe Lys
            100                 105                 110
Val Gln Asp Thr Cys Gly Val His Asn Leu His Gly Met Pro Gly Val
        115                 120                 125
Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu Ala Thr His Glu
    130                 135                 140
Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu Ile Ala Glu Gly
145                 150                 155                 160
Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu Phe Gly Leu Phe
                165                 170                 175
Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu Gly Gly Ile Ile
            180                 185                 190
Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp His Trp Val Ala
        195                 200                 205
Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln Ile Leu Pro Tyr
    210                 215                 220
His His Gln Gly Ser Cys  *
225                 230


<210> 1014
<211> 60
<212> PRT
<213> Homo sapiens


<400> 1014
Met Cys Glu Ile Ala Asp Leu Trp Ile Gly Leu Leu Trp Leu Phe Phe
1               5                   10                  15
Val Ile Tyr Cys Phe Ser Phe Asn Ser Leu Thr Thr Val Cys Arg Ala
            20                  25                  30
Ala Val Val Phe Trp Arg Ser Ala Pro Asp Pro Gly Ala Leu Gly Phe
        35                  40                  45
Phe Ser Ile Trp Lys Tyr His Gln Leu Arg Leu  *
    50                  55                  59


<210> 1015
```

```
<211> 112
<212> PRT
<213> Homo sapiens


<400> 1015
Met Met Thr Val Tyr Pro Leu Leu Gly Tyr Leu Ala Arg Val Gln Leu
1               5                   10                  15
Leu Gly His Ile Phe Gly Asp Ile Tyr Pro Ser Ile Phe His Val Leu
            20                  25                  30
Ile Leu Asn Leu Ile Ile Val Gly Ala Gly Val Ile Met Ala Cys Phe
        35                  40                  45
Tyr Pro Asn Ile Gly Gly Ile Ile Arg Tyr Ser Gly Ala Ala Cys Gly
    50                  55                  60
Leu Ala Phe Val Phe Ile Tyr Pro Ser Leu Ile Tyr Ile Ile Ser Leu
65                  70                  75                  80
His Gln Glu Glu Arg Leu Thr Trp Pro Lys Leu Ile Phe His Val Phe
                85                  90                  95
Ile Ile Ile Leu Gly Val Ala Asn Leu Ile Val Gln Phe Phe Met  *
            100                 105                 110 111


<210> 1016
<211> 68
<212> PRT
<213> Homo sapiens


<400> 1016
Met Ala Lys Tyr Ala Ser Met Thr Phe Lys Leu Phe Ser Leu Cys Val
1               5                   10                  15
Cys Met Tyr Ile His Ala Cys Thr His Thr His Ile Ser His Thr Asp
            20                  25                  30
Ile Asp Ile Lys Gln Phe Tyr Ala Gln Glu Tyr Gln Gly Gln Pro Lys
        35                  40                  45
Asp Lys Thr Asn Arg Ser Val Ile Tyr Cys Val Phe Asn Phe Ser Thr
    50                  55                  60
Tyr Phe Tyr  *
65      67


<210> 1017
<211> 51
<212> PRT
<213> Homo sapiens


<400> 1017
Met Arg Leu Leu Phe Ser Cys Arg Gly Arg Gly Met Phe Leu Phe Arg
1               5                   10                  15
Arg Arg Met Leu Pro Ser Arg Asp Arg Tyr Tyr Lys Asp Val Glu Leu
            20                  25                  30
Ile Phe Asn Tyr Leu Gly Phe Leu Ile Val Ser Gly Leu Leu Asp Leu
        35                  40                  45
Ile Phe  *
    50
```

<210> 1018
<211> 127
<212> PRT
<213> Homo sapiens

<400> 1018
Met Leu Arg Phe Tyr Leu Ile Ala Gly Gly Ile Pro Leu Ile Ile Cys
1   5   10   15
Gly Ile Thr Ala Ala Val Asn Ile His Asn Tyr Arg Asp His Ser Pro
            20   25   30
Tyr Cys Trp Leu Val Trp Arg Pro Ser Leu Gly Ala Phe Tyr Ile Pro
            35   40   45
Val Ala Leu Ile Leu Leu Ile Thr Trp Ile Tyr Phe Leu Cys Ala Gly
            50   55   60
Leu Arg Leu Arg Gly Pro Leu Ala Gln Asn Pro Lys Ala Gly Asn Ser
65   70   75   80
Arg Ala Ser Leu Glu Ala Gly Glu Glu Leu Arg Gly Ser Thr Arg Leu
                85   90   95
Arg Gly Ser Gly Pro Leu Leu Ser Asp Ser Gly Ser Leu Leu Ala Thr
            100   105   110
Gly Ser Ala Arg Val Gly Thr Pro Gly Pro Pro Glu Asp Gly Asp
            115   120   125   127

<210> 1019
<211> 188
<212> PRT
<213> Homo sapiens

<400> 1019
Met Gly Ser Ser Arg Leu Ala Ala Leu Leu Leu Pro Leu Leu Leu Ile
1   5   10   15
Val Ile Asp Leu Ser Asp Ser Ala Gly Ile Gly Phe Arg His Leu Pro
            20   25   30
His Trp Asn Thr Arg Cys Pro Leu Ala Ser His Thr Asp Asp Ser Phe
            35   40   45
Thr Gly Ser Ser Ala Tyr Ile Pro Cys Arg Thr Trp Trp Ala Leu Phe
            50   55   60
Ser Thr Lys Pro Trp Cys Val Arg Val Trp His Cys Ser Arg Cys Leu
65   70   75   80
Cys Gln His Leu Leu Ser Gly Gly Ser Gly Leu Gln Arg Gly Leu Phe
                85   90   95
His Leu Leu Val Gln Lys Ser Lys Lys Ser Ser Thr Phe Lys Phe Tyr
            100   105   110
Arg Arg His Lys Met Pro Ala Pro Ala Gln Arg Lys Leu Leu Pro Arg
            115   120   125
Arg His Leu Ser Glu Lys Ser His His Ile Ser Ile Pro Ser Pro Asp
            130   135   140
Ile Ser His Lys Gly Leu Arg Ser Lys Arg Thr Pro Pro Phe Gly Ser
145   150   155   160
Arg Asp Met Gly Lys Ala Phe Pro Lys Trp Asp Ser Pro Thr Pro Gly
                165   170   175
Gly Asp Arg Pro Ser Ser Phe Glu Leu Leu Pro *
            180   185   187

```
<210> 1020
<211> 65
<212> PRT
<213> Homo sapiens


<400> 1020
Met Ile Leu Leu Cys Pro Gly Leu Thr Asp Leu Ser Val Phe Leu Phe
1               5                   10                  15
Ser Leu Thr Ile Gly His Phe Ser Arg Val Arg Gly Gln Thr Ile Thr
            20                  25                  30
Ala Cys Pro Ser Ser Arg Ile Pro Ala Gly Phe Gln Asp Ile Val Gln
        35                  40                  45
Gly Ser Ala Asn Ser Gly Pro Arg Ala Leu Ala Arg Cys Pro Cys Leu
    50                  55                  60              64
*
```

```
<210> 1021
<211> 136
<212> PRT
<213> Homo sapiens


<400> 1021
Met Pro Gly Phe Lys Phe Cys Ser Ser Leu Arg Phe Leu Tyr Leu Ile
1               5                   10                  15
Asn Phe Pro Ile Gly Lys Phe Val Cys Leu Ala Ile Leu Leu Pro His
            20                  25                  30
Phe Pro Leu Leu Ser Cys Cys Pro Leu Gln Asp His Leu Asp Phe Pro
        35                  40                  45
Gly Lys Glu Ser Arg Tyr Ser Gly Ser Cys Trp Leu Pro Ser Tyr Ser
    50                  55                  60
Leu Ser Val Ala Gly Ser Pro Leu Gly His Leu Pro Asn Thr Tyr Met
65                  70                  75                  80
His Thr Pro Arg Thr Phe Ser Leu Leu Pro Ile Pro His Pro Ser Val
                85                  90                  95
Asn Trp Asp Ser Phe Lys Pro Phe Ser Ile Arg Glu Ala Leu Ala Thr
                100                 105                 110
Val Glu Ser Leu Gly Arg Gln Ala Phe Pro Asn Thr Pro Thr Thr Trp
            115                 120                 125
Ala Phe Thr Leu His Leu Ser   *
    130                 135
```

```
<210> 1022
<211> 186
<212> PRT
<213> Homo sapiens


<400> 1022
Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
```

```
  1                    5                      10                     15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
             20                      25                     30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
         35                      40                      45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
     50                      55                      60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
 65                      70                      75                     80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
                 85                      90                     95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
             100                     105                     110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
         115                     120                     125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
     130                     135                     140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145                     150                     155                     160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
                 165                     170                     175
Arg Ala Glu Ser Lys Leu Glu Ser Cys     *
                 180                     185
```

```
<210> 1023
<211> 186
<212> PRT
<213> Homo sapiens
```

```
<400> 1023
Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
 1                    5                      10                     15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
             20                      25                     30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
         35                      40                      45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
     50                      55                      60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
 65                      70                      75                     80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
                 85                      90                     95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
             100                     105                     110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
         115                     120                     125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
     130                     135                     140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145                     150                     155                     160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
                 165                     170                     175
Arg Ala Glu Ser Lys Leu Glu Ser Cys     *
                 180                     185
```

```
<210> 1024
<211> 73
<212> PRT
<213> Homo sapiens


<400> 1024
Met Val Cys Leu Val Gly Phe Leu Glu Leu Ile Leu Tyr Val Tyr Arg
1               5                   10                  15
Phe Arg Gln Ser Leu Ala Leu Ser His Arg Met Glu Cys Asn Gly Thr
            20                  25                  30
Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro
        35                  40                  45
Thr Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr Arg His His Ala
    50                  55                  60
Arg Val Ile Phe Phe Val Phe Leu  *
65              70      72
```

```
<210> 1025
<211> 67
<212> PRT
<213> Homo sapiens


<400> 1025
Met Phe Tyr Lys Leu Val Leu Trp Phe Trp Trp Cys Leu Thr Thr Arg
1               5                   10                  15
Gly Asn Leu Leu Cys Leu Ala Cys Ile Phe Ala Thr Leu Ser Leu Glu
            20                  25                  30
Ser Lys Asn Phe Pro Thr Leu Gln Ala Thr Leu Leu Ile Arg Gln His
        35                  40                  45
Phe Ile Tyr Lys Thr Phe Val Trp Pro Thr Val Cys His Asp Leu Cys
    50                  55                  60
Ser Leu  *
65  66
```

```
<210> 1026
<211> 67
<212> PRT
<213> Homo sapiens


<400> 1026
Met Gln Ala Gly Ser Ala Leu Trp His Leu Trp Ala Glu Gly Arg Cys
1               5                   10                  15
Trp Leu Trp Ala Gly Phe Gly Asn Phe Gly Glu Arg Pro His Leu Lys
            20                  25                  30
Thr His Thr Asp Tyr Pro Gly Pro Thr Glu Ala Ser Cys Ile Gln Pro
        35                  40                  45
Tyr Phe Pro Ser Arg Ile Met Leu Ser Ala Thr Pro Leu Glu Gly Tyr
    50                  55                  60
Val Phe  *
65  66
```

```
<210> 1027
<211> 59
<212> PRT
<213> Homo sapiens


<400> 1027
Met Leu Cys Val Trp Ile Lys Val Leu Phe Leu Leu Ile Ala Glu Ser
1               5                   10                  15
Asn Thr Trp Leu Leu Ser Pro Arg Thr Lys Asp Val Leu Lys Ser Glu
            20                  25                  30
Pro Thr Gln Ile Tyr Pro His Thr Ser Arg Lys Gln Phe Lys Lys Pro
        35                  40                  45
Gln Glu Ser Lys His Ser Phe Ile Gly Tyr  *
    50                  55          58


<210> 1028
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1028
Met Phe Gln Val Gly Gly Arg Val Phe Lys Arg Cys Ile Phe Ser Phe
1               5                   10                  15
Cys Cys Cys His Phe Ile Gly Leu Gly Leu Gly Val Cys Phe Ser Ser
            20                  25                  30
Leu Asn Gly Thr Arg Met Phe Ala Asp Ser Tyr Ser Val  *
        35                  40                  45


<210> 1029
<211> 61
<212> PRT
<213> Homo sapiens


<400> 1029
Met Ala Phe Arg Thr Cys Phe Leu Ser Cys Leu Thr Val Val Lys Val
1               5                   10                  15
Cys Ser Lys Ala Ser Pro Ser Phe Ser Thr Gln Gln Pro Cys Val Thr
            20                  25                  30
Thr Lys Val Glu Leu Ser Leu Ile Cys Cys Cys Phe Ser Ser Lys Leu
        35                  40                  45
Pro Asn Lys Ala Lys Asn Thr Leu Val Phe Tyr Ser  *
    50                  55                  60


<210> 1030
<211> 50
<212> PRT
<213> Homo sapiens
```

<400> 1030
Met Trp Leu Arg Lys Cys Leu Leu Gly Leu Ser Leu Ile Ser Phe Arg
1   5   10   15
Val Cys Gly Pro Leu Ile Ala Leu Trp Val Val Ser Asp Ser Ser Ile
            20   25   30
Arg Arg Leu Asn Pro Leu Val Val Phe Leu Cys Val Cys Ala Glu Leu
        35   40   45
Gly *
49

<210> 1031
<211> 152
<212> PRT
<213> Homo sapiens

<400> 1031
Met Ile Val Tyr Trp Val Leu Met Ser Asn Phe Leu Phe Asn Thr Gly
1   5   10   15
Lys Phe Ile Phe Asn Phe Ile His His Ile Asn Asp Thr Asp Thr Ile
            20   25   30
Leu Ser Thr Asn Asn Ser Asn Pro Val Ile Cys Pro Ser Ala Gly Ser
        35   40   45
Gly Gly His Pro Asp Asn Ser Ser Met Ile Phe Tyr Ala Asn Asp Thr
    50   55   60
Gly Ala Gln Gln Phe Glu Lys Trp Trp Asp Lys Ser Arg Thr Val Pro
65   70   75   80
Phe Tyr Leu Val Gly Leu Leu Leu Pro Leu Leu Asn Phe Lys Ser Pro
            85   90   95
Ser Phe Phe Ser Lys Phe Asn Ile Leu Gly Ile Asn Asn Gln Val Ile
            100   105   110
Leu Pro Gly Val Thr Glu Met Pro Gly Tyr Cys Pro Phe Leu Leu Pro
    115   120   125
Val Ser Thr Glu Cys Cys Ala Val Ala Thr Ser Tyr Thr Cys Phe Glu
    130   135   140
Glu Lys Asn Ile Gly Gln Cys Cys
145   150   152

<210> 1032
<211> 1764
<212> PRT
<213> Homo sapiens

<400> 1032
Met Pro Ser Arg Leu Lys Ala Leu Gly Thr Leu Val Ser His Val Thr
1   5   10   15
Leu Arg Leu Leu Lys Pro Glu Cys Val Leu Asp Lys Ser Trp Cys Gln
            20   25   30
Glu Glu Leu Ser Val Ala Val Lys Arg Ala Val Met Leu Leu His Thr
        35   40   45
His Thr Ile Thr Ser Arg Val Gly Lys Gly Glu Pro Gly Ala Ala Pro
    50   55   60
Leu Ser Ala Pro Ala Phe Ser Leu Val Phe Pro Phe Leu Lys Met Val

602

```
     65                    70                    75                    80
Leu Thr Glu Met Pro His His Ser Glu Glu Glu Glu Trp Met Ala
                85                    90                    95
Gln Ile Leu Gln Ile Leu Thr Val Gln Ala Gln Leu Arg Ala Ser Pro
            100                   105                   110
Asn Thr Pro Pro Gly Arg Val Asp Glu Asn Gly Pro Glu Leu Leu Pro
            115                   120                   125
Arg Val Ala Met Leu Arg Leu Leu Thr Trp Val Ile Gly Thr Gly Ser
            130                   135                   140
Pro Arg Leu Gln Val Leu Ala Ser Asp Thr Leu Thr Thr Leu Cys Ala
145                   150                   155                   160
Ser Ser Ser Gly Asp Asp Gly Cys Ala Phe Ala Glu Gln Glu Glu Val
                165                   170                   175
Asp Val Leu Leu Cys Ala Leu Gln Ser Pro Cys Ala Ser Val Arg Glu
            180                   185                   190
Thr Val Leu Arg Gly Leu Met Glu Leu His Met Val Leu Pro Ala Pro
            195                   200                   205
Asp Thr Asp Glu Lys Asn Gly Leu Asn Leu Leu Arg Arg Leu Trp Val
            210                   215                   220
Val Lys Phe Asp Lys Glu Glu Glu Ile Arg Lys Leu Ala Glu Arg Leu
225                   230                   235                   240
Trp Ser Met Met Gly Leu Asp Leu Gln Pro Asp Leu Cys Ser Leu Leu
                245                   250                   255
Ile Asp Asp Val Ile Tyr His Glu Ala Ala Val Arg Gln Ala Gly Ala
                260                   265                   270
Glu Ala Leu Ser Gln Ala Val Ala Arg Tyr Gln Arg Gln Ala Ala Glu
            275                   280                   285
Val Met Gly Arg Leu Met Glu Ile Tyr Gln Glu Lys Leu Tyr Arg Pro
            290                   295                   300
Pro Pro Val Leu Asp Ala Leu Gly Arg Val Ile Ser Glu Ser Pro Pro
305                   310                   315                   320
Asp Gln Trp Glu Ala Arg Cys Gly Leu Ala Leu Ala Leu Asn Lys Leu
              325                     330                   335
Ser Gln Tyr Leu Asp Ser Ser Gln Val Lys Pro Leu Phe Gln Phe Phe
            340                   345                   350
Val Pro Asp Ala Leu Asn Asp Arg His Pro Asp Val Arg Lys Cys Met
            355                   360                   365
Leu Asp Ala Ala Leu Ala Thr Leu Asn Thr His Gly Lys Glu Asn Val
            370                   375                   380
Asn Ser Leu Leu Pro Val Phe Glu Glu Phe Leu Lys Asn Ala Pro Asn
385                   390                   395                   400
Asp Ala Ser Tyr Asp Ala Val Arg Gln Ser Val Val Val Leu Met Gly
            405                   410                   415
Ser Leu Ala Lys His Leu Asp Lys Ser Asp Pro Lys Val Lys Pro Ile
            420                   425                   430
Val Ala Lys Leu Ile Ala Ala Leu Ser Thr Pro Ser Gln Gln Val Gln
            435                   440                   445
Glu Ser Val Ala Ser Cys Leu Pro Pro Leu Val Pro Ala Ile Lys Glu
            450                   455                   460
Asp Ala Gly Gly Met Ile Gln Arg Leu Met Gln Gln Leu Leu Glu Ser
465                   470                   475                   480
Asp Lys Tyr Ala Glu Arg Lys Gly Ala Ala Tyr Gly Leu Ala Gly Leu
                485                   490                   495
Val Lys Gly Leu Gly Ile Leu Ser Leu Lys Gln Gln Glu Met Met Ala
            500                   505                   510
Ala Leu Thr Asp Ala Ile Gln Asp Lys Lys Asn Phe Arg Arg Arg Glu
            515                   520                   525
Gly Ala Leu Phe Ala Phe Glu Met Leu Cys Thr Met Leu Gly Lys Leu
            530                   535                   540
```

603

```
Phe Glu Pro Tyr Val Val His Val Leu Pro His Leu Leu Leu Cys Phe
545             550                 555                     560
Gly Asp Gly Asn Gln Tyr Val Arg Glu Ala Ala Asp Asp Cys Ala Lys
            565                 570                 575
Ala Val Met Ser Asn Leu Ser Ala His Gly Val Lys Leu Val Leu Pro
            580                 585                 590
Ser Leu Leu Ala Ala Leu Glu Glu Glu Ser Trp Arg Thr Lys Ala Gly
        595                 600                 605
Ser Val Glu Leu Leu Gly Ala Met Ala Tyr Cys Ala Pro Lys Gln Leu
        610                 615                 620
Ser Ser Cys Leu Pro Asn Ile Val Pro Lys Leu Thr Glu Val Leu Thr
625                 630                 635                     640
Asp Ser His Val Lys Val Gln Lys Ala Gly Gln Gln Ala Leu Arg Gln
            645                 650                 655
Ile Gly Ser Val Ile Arg Asn Pro Glu Ile Leu Ala Ile Ala Pro Val
            660                 665                 670
Leu Leu Asp Ala Leu Thr Asp Pro Ser Arg Lys Thr Gln Lys Cys Leu
        675                 680                 685
Gln Thr Leu Leu Asp Thr Lys Phe Val His Phe Ile Asp Ala Pro Ser
    690                 695                 700
Leu Ala Leu Ile Met Pro Ile Val Gln Arg Ala Phe Gln Asp Arg Ser
705                 710                 715                     720
Thr Asp Thr Arg Lys Met Ala Ala Gln Ile Ile Gly Asn Met Tyr Ser
            725                 730                 735
Leu Thr Asp Gln Lys Asp Leu Ala Pro Tyr Leu Pro Ser Val Thr Pro
            740                 745                 750
Gly Leu Lys Ala Ser Leu Leu Asp Pro Val Pro Glu Val Arg Thr Val
        755                 760                 765
Ser Ala Lys Ala Leu Gly Ala Met Val Lys Gly Met Gly Glu Ser Cys
    770                 775                 780
Phe Glu Asp Leu Leu Pro Trp Leu Met Glu Thr Leu Thr Tyr Glu Gln
785                 790                 795                     800
Ser Ser Val Asp Arg Ser Gly Ala Ala Gln Gly Leu Ala Glu Val Met
            805                 810                 815
Ala Gly Leu Gly Val Glu Lys Leu Glu Lys Leu Met Pro Glu Ile Val
        820                 825                 830
Ala Thr Ala Ser Lys Val Asp Ile Ala Pro His Val Arg Asp Gly Tyr
    835                 840                 845
Ile Met Met Phe Asn Tyr Leu Pro Ile Thr Phe Gly Asp Lys Phe Thr
850                 855                 860
Pro Tyr Val Gly Pro Ile Ile Pro Cys Ile Leu Lys Ala Leu Ala Asp
865                 870                 875                     880
Glu Asn Glu Phe Val Arg Asp Thr Ala Leu Arg Ala Gly Gln Arg Val
            885                 890                 895
Ile Ser Met Tyr Ala Glu Thr Ala Ile Ala Leu Leu Leu Pro Gln Leu
        900                 905                 910
Glu Gln Gly Leu Phe Asp Asp Leu Trp Arg Ile Arg Phe Ser Ser Val
    915                 920                 925
Gln Leu Leu Gly Asp Leu Leu Phe His Ile Ser Gly Val Thr Gly Lys
    930                 935                 940
Met Thr Thr Glu Thr Ala Ser Glu Asp Asp Asn Phe Gly Thr Ala Gln
945                 950                 955                     960
Ser Asn Lys Ala Ile Ile Thr Ala Leu Gly Val Glu Arg Arg Asn Arg
            965                 970                 975
Val Leu Ala Gly Leu Tyr Met Gly Arg Ser Asp Thr Gln Leu Val Val
        980                 985                 990
Arg Gln Ala Ser Leu His Val Trp Lys Ile Val Val Ser Asn Thr Pro
    995                 1000                1005
Arg Thr Leu Arg Glu Ile Leu Pro Thr Leu Phe Gly Leu Leu Leu Gly
```

```
        1010              1015                1020
Phe Leu Ala Ser Thr Cys Ala Asp Lys Arg Thr Ile Ala Ala Arg Thr
1025              1030                1035                1040
Leu Gly Asp Leu Val Arg Lys Leu Gly Glu Lys Ile Leu Pro Glu Ile
              1045                1050                1055
Ile Pro Ile Leu Glu Glu Gly Leu Arg Ser Gln Lys Ser Asp Glu Arg
              1060                1065                1070
Gln Gly Val Cys Ile Gly Leu Ser Glu Ile Met Lys Ser Thr Ser Arg
              1075                1080                1085
Asp Ala Val Leu Tyr Phe Ser Glu Ser Leu Val Pro Thr Ala Arg Lys
        1090              1095                1100
Ala Leu Cys Asp Pro Leu Glu Glu Val Arg Glu Ala Ala Ala Lys Thr
1105              1110                1115                1120
Phe Glu Gln Leu His Ser Thr Ile Gly His Gln Ala Leu Glu Asp Ile
              1125                1130                1135
Leu Pro Phe Leu Leu Lys Gln Leu Asp Asp Glu Glu Val Ser Glu Phe
              1140                1145                1150
Ala Leu Asp Gly Leu Lys Gln Val Met Ala Ile Lys Ser Arg Val Val
        1155              1160                1165
Leu Pro Tyr Leu Val Pro Lys Leu Thr Thr Pro Pro Val Asn Thr Arg
        1170              1175                1180
Val Leu Ala Phe Leu Ser Ser Val Ala Gly Asp Ala Leu Thr Arg His
1185              1190                1195                1200
Leu Gly Val Ile Leu Pro Ala Val Met Leu Ala Leu Lys Glu Lys Leu
              1205                1210                1215
Gly Thr Pro Asp Glu Gln Leu Glu Met Ala Asn Cys Gln Ala Val Ile
              1220                1225                1230
Leu Ser Val Glu Asp Asp Thr Gly His Arg Ile Ile Ile Glu Asp Leu
              1235                1240                1245
Leu Glu Ala Thr Arg Ser Pro Glu Val Gly Met Arg Gln Ala Ala Ala
        1250              1255                1260
Ile Ile Leu Asn Ile Tyr Cys Ser Arg Ser Lys Ala Asp Tyr Thr Ser
1265              1270                1275                1280
His Leu Arg Ser Leu Val Ser Gly Leu Ile Arg Leu Phe Asn Asp Ser
              1285                1290                1295
Ser Pro Val Val Leu Glu Glu Ser Trp Asp Ala Leu Asn Ala Ile Thr
              1300                1305                1310
Lys Lys Leu Asp Ala Gly Asn Gln Leu Ala Leu Ile Glu Glu Leu His
        1315              1320                1325
Lys Glu Ile Arg Leu Ile Gly Asn Glu Ser Lys Gly Glu His Val Pro
        1330              1335                1340
Gly Phe Cys Leu Pro Lys Lys Gly Val Thr Ser Ile Leu Pro Val Leu
1345              1350                1355                1360
Arg Glu Gly Val Leu Thr Gly Ser Pro Glu Gln Lys Glu Glu Ala Ala
              1365                1370                1375
Lys Ala Leu Gly Leu Val Ile Arg Leu Thr Ser Ala Asp Ala Leu Arg
              1380                1385                1390
Pro Ser Val Val Ser Ile Thr Gly Pro Leu Ile Arg Ile Leu Gly Asp
        1395              1400                1405
Arg Phe Ser Trp Asn Val Lys Ala Ala Leu Leu Glu Thr Leu Ser Leu
        1410              1415                1420
Leu Leu Ala Lys Val Gly Ile Ala Leu Lys Pro Phe Leu Pro Gln Leu
1425              1430                1435                1440
Gln Thr Thr Phe Thr Lys Ala Leu Gln Asp Ser Asn Arg Gly Val Arg
              1445                1450                1455
Leu Lys Ala Ala Asp Ala Leu Gly Lys Leu Ile Ser Ile His Ile Lys
        1460              1465                1470
Val Asp Pro Leu Phe Thr Glu Leu Leu Asn Gly Ile Arg Ala Met Glu
        1475              1480                1485
```

                                    605

```
Asp Pro Gly Val Arg Asp Thr Met Leu Gln Ala Leu Arg Phe Val Ile
    1490                1495                1500
Gln Gly Ala Gly Ala Lys Val Asp Ala Val Ile Arg Lys Asn Ile Val
1505                1510                1515                1520
Ser Leu Leu Leu Ser Met Leu Gly His Asp Glu Asp Asn Thr Arg Ile
                1525                1530                1535
Ser Ser Ala Gly Cys Leu Gly Glu Leu Cys Ala Phe Leu Thr Glu Glu
                1540                1545                1550
Glu Leu Ser Ala Val Leu Gln Gln Cys Leu Leu Ala Asp Val Ser Gly
            1555                1560                1565
Ile Asp Trp Met Val Arg His Gly Arg Ser Leu Ala Leu Ser Val Ala
    1570                1575                1580
Val Asn Val Ala Pro Gly Arg Leu Cys Ala Gly Arg Tyr Ser Ser Asp
1585                1590                1595                1600
Val Gln Glu Met Ile Leu Ser Ser Ala Thr Ala Asp Arg Ile Pro Ile
                1605                1610                1615
Ala Val Ser Gly Val Arg Gly Met Gly Phe Leu Met Arg His His Ile
            1620                1625                1630
Glu Thr Gly Gly Gly Gln Leu Pro Ala Lys Leu Ser Ser Leu Phe Val
        1635                1640                1645
Lys Cys Leu Gln Asn Pro Ser Ser Asp Ile Arg Leu Val Ala Glu Lys
    1650                1655                1660
Met Ile Trp Trp Ala Asn Lys Asp Pro Leu Pro Pro Leu Asp Pro Gln
1665                1670                1675                1680
Ala Ile Lys Pro Ile Leu Lys Ala Leu Leu Asp Asn Thr Lys Asp Lys
                1685                1690                1695
Asn Thr Val Val Arg Ala Tyr Ser Asp Gln Ala Ile Val Asn Leu Leu
            1700                1705                1710
Lys Met Arg Gln Gly Glu Glu Val Phe Gln Ser Leu Ser Lys Ile Leu
        1715                1720                1725
Asp Val Ala Ser Leu Glu Val Leu Asn Glu Val Asn Arg Arg Ser Leu
    1730                1735                1740
Lys Lys Leu Ala Ser Gln Ala Asp Ser Thr Glu Gln Val Asp Asp Thr
1745                1750                1755                1760
Ile Leu Thr  *
        1763
```

```
<210> 1033
<211> 151
<212> PRT
<213> Homo sapiens


<400> 1033
Met Asn Arg Arg Ala Ser Gln Met Leu Leu Met Phe Leu Leu Ala Ile
1               5                   10                  15
Cys Leu Leu Ala Ile Ile Phe Val Pro Gln Glu Met Gln Met Leu Arg
            20                  25                  30
Glu Val Leu Ala Thr Leu Gly Leu Gly Ala Ser Ala Leu Ala Asn Thr
        35                  40                  45
Leu Ala Phe Ala His Gly Asn Glu Val Ile Pro Thr Ile Ile Arg Ala
    50                  55                  60
Arg Ala Met Gly Ile Asn Ala Thr Phe Ala Asn Ile Ala Gly Ala Leu
65                  70                  75                  80
Ala Pro Leu Met Met Ile Leu Ser Val Tyr Ser Pro Pro Leu Pro Trp
                85                  90                  95
Ile Ile Tyr Gly Val Phe Pro Phe Ile Ser Gly Phe Ala Phe Leu Leu
```

```
                    100                    105                    110
Leu Pro Glu Thr Arg Asn Lys Pro Leu Phe Asp Thr Ile Gln Asp Glu
          115                    120                    125
Lys Asn Glu Arg Lys Asp Pro Arg Glu Pro Lys Gln Glu Asp Pro Arg
      130                    135                    140
Val Glu Val Thr Gln Phe  *
145                    150
```

```
        <210> 1034
        <211> 149
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1034
Met Ala Leu Leu Leu Pro Arg Trp Phe Arg Glu Ala Pro Val Leu Phe
 1               5                    10                    15
Ser Thr Gly Trp Ser Pro Leu Asp Val Leu Leu His Ser Leu Leu Thr
                20                    25                    30
Gln Pro Ile Phe Leu Ala Gly Leu Ser Gly Phe Leu Leu Glu Asn Thr
            35                    40                    45
Ile Pro Gly Thr Gln Leu Glu Arg Gly Leu Gly Gln Gly Leu Pro Ser
        50                    55                    60
Pro Phe Thr Ala Gln Glu Ala Arg Met Pro Gln Lys Pro Arg Glu Lys
65                    70                    75                    80
Ala Ala Gln Val Tyr Arg Leu Pro Phe Pro Ile Gln Asn Leu Cys Pro
                85                    90                    95
Cys Ile Pro Gln Pro Leu His Cys Leu Cys Pro Leu Pro Glu Asp Pro
            100                    105                    110
Gly Asp Glu Glu Gly Gly Ser Ser Glu Pro Glu Glu Met Ala Asp Leu
        115                    120                    125
Leu Pro Gly Ser Gly Glu Pro Cys Pro Glu Ser Thr Arg Glu Gly Val
    130                    135                    140
Arg Ser Gln Lys  *
145           148
```

```
        <210> 1035
        <211> 88
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1035
Met Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu Ala Gln Asn
 1               5                    10                    15
Leu Val Ser Asp Ile Lys Ala Val Lys Ala Asn Trp Ser Lys Trp Asn
                20                    25                    30
Asp Asp Phe Glu Asn His Trp Leu Thr Pro Thr Ile Ser Glu Val Leu
            35                    40                    45
Ser Thr Ala Gly Pro Gln Gln Asn Ser Leu Thr Gly Ala Pro Gly Pro
        50                    55                    60
Ala Pro Pro Ser Arg His Val Phe Phe Gly Leu Gly Gly Leu Tyr Pro
65                    70                    75                    80
Glu Pro Thr Phe Lys Asn Trp  *
                85        87
```

```
<210> 1036
<211> 96
<212> PRT
<213> Homo sapiens


<400> 1036
Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile Ile Arg
1               5                   10                  15
Asp Phe Tyr Asn Ser Ile Val Asn Val Ala Gln Lys Arg Glu Leu Gly
            20                  25                  30
Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile Val Gly
        35                  40                  45
Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser Ser Ser
    50                  55                  60
Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser Tyr His
65                  70                  75                  80
Thr Gly Lys Lys Ser Pro Ser Val Tyr Ser Arg Ser Gln Tyr Val  *
                85                  90                  95



<210> 1037
<211> 139
<212> PRT
<213> Homo sapiens


<400> 1037
Met Ala Leu Ser Trp Met Thr Ile Val Val Pro Leu Leu Thr Phe Glu
1               5                   10                  15
Ile Leu Leu Val His Lys Leu Asp Gly His Asn Ala Phe Ser Cys Ile
            20                  25                  30
Pro Ile Phe Val Pro Leu Trp Leu Ser Leu Ile Thr Leu Met Ala Thr
        35                  40                  45
Thr Phe Gly Gln Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg Lys
    50                  55                  60
Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu Tyr
65                  70                  75                  80
Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Asn Glu Glu Thr Glu
                85                  90                  95
Glu Thr Pro Val Pro Glu Pro Pro Lys Ile Ala Pro Met Phe Arg Lys
                100                 105                 110
Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Leu Pro
            115                 120                 125
Pro Pro Lys Leu Asn Ile Glu Met Pro Asp  *
130                 135             138



<210> 1038
<211> 64
<212> PRT
<213> Homo sapiens
```

```
        <400> 1038
Met Val Leu Ser Gly Ile His Trp Tyr Ser Val Leu Leu Leu Ala Val
1                 5                   10                  15
Glu Phe Cys Arg Tyr Cys Pro Leu Arg Tyr Arg Cys Ser Thr Phe Ser
            20                  25                  30
Ser Trp Ala Arg Val Ser Ser Thr Pro Gln Ala Ser Ser Pro Val Ala
        35                  40                  45
Leu Thr Met Leu Ser Ser Arg Gly Arg Ser Glu Gly Gly Ala Leu   *
    50              55                  60          63
```

```
        <210> 1039
        <211> 286
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1039
Met Met Leu Gly Pro Val Thr Leu His Leu Val Gly His Leu Leu Ala
1                 5                   10                  15
Phe Leu Asp Leu Leu Cys Pro Arg Gly Pro Ile His Ser Ile Leu Pro
            20                  25                  30
Met Thr Phe Glu Ala Val Lys Gln Asp His Gly Phe Met Leu Tyr Arg
        35                  40                  45
Thr Tyr Met Thr His Thr Ile Phe Glu Pro Thr Pro Phe Trp Val Pro
    50                  55                  60
Asn Asn Gly Val His Asp Arg Ala Tyr Val Met Val Asp Gly Val Phe
65                  70                  ·75                     80
Gln Gly Val Val Glu Arg Asn Met Arg Asp Lys Leu Phe Leu Thr Gly
            85                  90                  95
Lys Leu Gly Ser Lys Leu Asp Ile Leu Val Glu Asn Met Gly Arg Leu
            100                 105                 110
Ser Phe Gly Ser Asn Ser Ser Asp Phe Lys Gly Leu Leu Lys Pro Pro
        115                 120                 125
Ile Leu Gly Gln Thr Ile Leu Thr Gln Trp Met Met Phe Pro Leu Lys
    130                 135                 140
Ile Asp Asn Leu Val Lys Trp Trp Phe Pro Leu Gln Leu Pro Lys Trp
145                 150                 155                 160
Pro Tyr Pro Gln Ala Pro Ser Gly Pro Thr Phe Tyr Ser Lys Thr Phe
            165                 170                 175
Pro Ile Leu Gly Ser Val Gly Asp Thr Phe Leu Tyr Leu Pro Gly Trp
            180                 185                 190
Thr Lys Gly Gln Val Trp Ile Asn Gly Phe Asn Leu Gly Arg Tyr Trp
    195                 200                 205
Thr Lys Gln Gly Pro Gln Gln Thr Leu Tyr Val Pro Arg Phe Leu Leu
    210                 215                 220
Phe Pro Arg Gly Ala Leu Asn Lys Ile Thr Leu Leu Glu Leu Glu Asp
225                 230                 235                 240
Val Pro Leu Gln Pro Gln Val Gln Phe Leu Asp Lys Pro Ile Leu Asn
            245                 250                 255
Ser Thr Ser Thr Leu His Arg Thr His Ile Asn Ser Leu Ser Ala Asp
        260                 265                 270
Thr Leu Ser Ala Ser Glu Pro Met Glu Leu Ser Gly His   *
    275                 280                 285
```

```
        <210> 1040
```

```
<211> 96
<212> PRT
<213> Homo sapiens


<400> 1040
Met His Ala His Ser Ala Ser Leu Trp Val Ala Phe Phe Tyr Arg Ser
1               5                   10                  15
Pro Phe Leu Phe Phe Thr Thr Gly Pro Pro Pro Thr Ser Ser Ser
            20                  25                  30
Pro Ala Gly Leu Pro Leu Leu Glu Ser Thr Val Asp Ala Ser Arg Pro
        35                  40                  45
Asn Trp Leu Pro Leu Leu Leu Ser Pro Pro Leu Pro Phe Leu Ser Ile
    50                  55                  60
Glu Cys Thr Leu Tyr Asn Phe Ser Gly Ile Val Ile Glu Asn Lys Ile
65                  70                  75                  80
Phe Thr Ile Ile Thr Gly Phe Phe Gln Val Thr Ser Cys Arg Leu  *
                85                  90                  95



<210> 1041
<211> 64
<212> PRT
<213> Homo sapiens



<400> 1041
Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
1               5                   10                  15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
            20                  25                  30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
        35                  40                  45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu  *
    50                  55                  60                  63



<210> 1042
<211> 415
<212> PRT
<213> Homo sapiens



<400> 1042
Met Asn Glu Thr Gly Val Ile Val Trp Tyr Leu Ala Leu Cys Leu Leu
1               5                   10                  15
Leu Ala Trp Leu Ile Val Gly Ala Ala Leu Phe Lys Gly Ile Lys Ser
            20                  25                  30
Ser Gly Lys Val Val Tyr Phe Thr Ala Leu Phe Pro Tyr Val Val Leu
        35                  40                  45
Leu Ile Leu Leu Val Arg Gly Ala Thr Leu Glu Gly Ala Ser Lys Gly
    50                  55                  60
Ile Ser Tyr Tyr Ile Gly Ala Gln Ser Asn Phe Thr Lys Leu Lys Glu
65                  70                  75                  80
Ala Glu Val Trp Lys Asp Ala Ala Thr Gln Ile Phe Tyr Ser Leu Ser
                85                  90                  95
Val Ala Trp Gly Gly Leu Val Ala Leu Ser Ser Tyr Asn Lys Phe Lys
```

```
                 100                    105                    110
Asn Asn Cys Phe Ser Asp Ala Ile Val Val Cys Leu Thr Asn Cys Leu
         115                    120                    125
Thr Ser Val Phe Ala Gly Phe Ala Ile Phe Ser Ile Leu Gly His Met
     130                    135                    140
Ala His Ile Ser Gly Lys Glu Val Ser Gln Val Val Lys Ser Gly Phe
145                    150                    155                    160
Asp Leu Ala Phe Ile Ala Tyr Pro Glu Ala Leu Ala Gln Leu Pro Gly
                 165                    170                    175
Gly Pro Phe Trp Ser Ile Leu Phe Phe Phe Met Leu Leu Thr Leu Gly
                 180                    185                    190
Leu Asp Ser Gln Phe Ala Ser Ile Glu Thr Ile Thr Thr Thr Ile Gln
         195                    200                    205
Asp Leu Phe Pro Lys Val Met Lys Lys Met Arg Val Pro Ile Thr Leu
     210                    215                    220
Gly Cys Cys Leu Val Leu Phe Leu Leu Gly Leu Val Cys Val Thr Gln
225                    230                    235                    240
Ala Gly Ile Tyr Trp Val His Leu Ile Asp His Phe Cys Ala Gly Trp
                 245                    250                    255
Gly Ile Leu Ile Ala Ala Ile Leu Glu Leu Val Gly Ile Ile Trp Ile
             260                    265                    270
Tyr Gly Gly Asn Arg Phe Ile Glu Asp Thr Glu Met Met Ile Gly Ala
         275                    280                    285
Lys Arg Trp Ile Phe Trp Leu Trp Trp Arg Ala Cys Trp Phe Val Ile
     290                    295                    300
Thr Pro Ile Leu Leu Ile Ala Ile Phe Ile Trp Ser Leu Val Gln Phe
305                    310                    315                    320
His Arg Pro Asn Tyr Gly Ala Ile Pro Tyr Pro Asp Trp Gly Val Ala
                 325                    330                    335
Leu Gly Trp Cys Met Ile Val Phe Cys Ile Ile Trp Ile Pro Ile Met
             340                    345                    350
Ala Ile Ile Lys Ile Ile Gln Ala Lys Gly Asn Ile Phe Gln Arg Leu
         355                    360                    365
Ile Ser Cys Cys Arg Pro Ala Ser Asn Trp Gly Pro Tyr Leu Glu Gln
     370                    375                    380
His Arg Gly Glu Arg Tyr Lys Asp Met Val Asp Pro Lys Lys Glu Ala
385                    390                    395                    400
Asp His Glu Ile Pro Thr Val Ser Gly Ser Arg Lys Pro Glu  *
             405                    410                    414
```

```
        <210> 1043
        <211> 48
        <212> PRT
        <213> Homo sapiens


        <400> 1043
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
1               5                   10                      15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
             20                 25                      30
Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser  *
         35                 40                 45     47


        <210> 1044
```

```
<211> 146
<212> PRT
<213> Homo sapiens


<400> 1044
Met Leu Phe Ser Ser Met Thr Leu Arg Leu Ser Arg Cys Ser Cys Ser
1               5                   10                  15
Ile Leu Leu Phe Trp Ala Ser Ala Ala Cys Met Phe Pro Ser Ser Arg
            20                  25                  30
Tyr Leu Trp Ser Gly Arg Ser Leu Val Ser Val Glu Gly Ser Asp Arg
        35                  40                  45
Phe Ser Ser Ala Val Ser Ser Phe Ser Ser Lys Ala Asn Trp Val Lys
    50                  55                  60
Pro Lys Phe Arg Ser Trp Ser Gly Gly Ile Glu Leu Gly Phe Gln Met
65                  70                  75                  80
His Trp Pro Pro Gly Val Gly Pro Arg Tyr Ser Pro Ser Cys His Phe
                85                  90                  95
Pro Lys Ser Arg Trp Arg Thr Arg Pro Leu Arg Leu Ser Thr Ala Pro
            100                 105                 110
Cys Thr Ser Trp Thr Leu Glu Leu Gln Tyr Leu Ala Leu Gln Lys Val
        115                 120                 125
Ile Leu Gln Trp Gln Glu Leu Ser Cys Val Phe Arg Met Ser Thr Ser
    130                 135                 140
Pro *
145



<210> 1045
<211> 53
<212> PRT
<213> Homo sapiens


<400> 1045
Met Ala Leu Phe Cys Leu Val Tyr Gln Ile Ile Phe Leu Ile Gln His
1               5                   10                  15
Thr His Phe Ser Leu Ala Lys Leu Leu Ile Met Ala Leu Asn Thr Leu
            20                  25                  30
Thr Tyr Cys Val Leu Val Gln Ser Asn Asn Thr Gln Ser Thr Leu Arg
        35                  40                  45
Lys Ser Ala Ser *
50          52



<210> 1046
<211> 407
<212> PRT
<213> Homo sapiens


<400> 1046
Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser
1               5                   10                  15
Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg
            20                  25                  30
Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser
```

```
              35                      40                      45
Ser Arg His Ala Ala Glu Leu Arg Asp Phe Lys Asn Lys Met Leu Pro
      50                      55                      60
Leu Leu Glu Val Ala Glu Lys Glu Arg Glu Ala Leu Arg Thr Glu Ala
65                      70                      75                      80
Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr
                  85                      90                      95
Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys
              100                     105                     110
Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys
          115                     120                     125
Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser
      130                     135                     140
Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys
145                     150                     155                     160
Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln
                  165                     170                     175
Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala
              180                     185                     190
Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val
          195                     200                     205
Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg
      210                     215                     220
Pro Pro Gly Arg Pro Gly Gly Gly Glu Met Glu Asn Thr Leu Gln
225                     230                     235                     240
Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val
                  245                     250                     255
Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr
              260                     265                     270
Tyr Ile Asp Leu Ala Ala Asp Glu Glu Gly Leu Trp Ala Val Tyr Ala
          275                     280                     285
Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln
      290                     295                     300
Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn
305                     310                     315                     320
Ala Glu Ala Ala Phe Val Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn
                  325                     330                     335
Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser
              340                     345                     350
Gly Thr Leu Thr Pro Glu Arg Ala Ala Leu Pro Tyr Phe Pro Arg Arg
          355                     360                     365
Tyr Gly Ala His Ala Ser Leu Arg Tyr Asn Pro Arg Glu Arg Gln Leu
      370                     375                     380
Tyr Ala Trp Asp Asp Gly Tyr Gln Ile Val Tyr Lys Leu Glu Met Arg
385                     390                     395                     400
Lys Lys Glu Glu Glu Val   *
              405 406
```

```
     <210> 1047
     <211> 268·
     <212> PRT
     <213> Homo sapiens


     <400> 1047
Met Ile Gln Lys Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val
  1           5                      10                      15
```

```
Tyr Leu Leu Phe Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu
        20                  25                  30
Asn Pro Cys Ala Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys
        35                  40                  45
Thr Val Pro Thr Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr
    50                  55                  60
Phe Leu Leu Asp Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu
65                  70                  75                  80
Met Leu Ser Ser Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val
                85                  90                  95
Thr Tyr Ile Ile Leu Thr Phe Val Leu Leu Leu Asn Met Leu Ile Ala
            100                 105                 110
Leu Met Gly Glu Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile
        115                 120                 125
Trp Lys Leu Gln Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe
    130                 135                 140
Pro Val Phe Leu Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val
145                 150                 155                 160
Gly Lys Ser Ser Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val
                165                 170                 175
Asp Glu Val Asn Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn
            180                 185                 190
Glu Asp Pro Gly Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His
        195                 200                 205
Thr Val Gly Arg Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg
    210                 215                 220
Val Val Glu Leu Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro
225                 230                 235                 240
Leu Asp Ser Met Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr
                245                 250                 255
Pro Arg Lys Trp Arg Thr Asp Asp Ala Pro Leu  *
                260                 265     267
```

```
        <210> 1048
        <211> 59
        <212> PRT
        <213> Homo sapiens


        <400> 1048
Met Trp Ser His Phe Trp Lys Val Ser Thr Gln Gly Leu Phe Val Ala
1               5                   10                  15
Met Phe Trp Pro Leu Ile Pro Gln Phe Val Cys Asn Cys Leu Phe Tyr
        20                  25                  30
Trp Ala Leu Tyr Phe Asn Pro Ile Ile Asn Ile Asp Leu Val Val Lys
        35                  40                  45
Glu Leu Arg Arg Leu Glu Thr Gln Val Leu  *
    50                  55          58


        <210> 1049
        <211> 77
        <212> PRT
        <213> Homo sapiens
```

```
<400> 1049
Met Arg Cys Arg Cys Cys Leu Cys Ser Ser Cys Phe Trp Gly Leu Trp
1               5                   10                  15
Asp Pro Cys Pro Lys Ser Val Trp Ser Pro Trp Ser Ser Ser Ser Leu
            20                  25                  30
Gly Ala Phe Ser Val Gly Ser Glu Leu Ala Ser Ala Ala Ser Ser Leu
            35                  40                  45
Ser Pro Pro Ser Cys Ser Pro Arg Thr Ala Pro Arg Ser Thr Ala Lys
        50                  55                  60
Leu Cys Leu Arg Trp Ser Arg Pro Gly Asn Cys Gly  *
65                  70                  75  76
```

```
<210> 1050
<211> 474
<212> PRT
<213> Homo sapiens
```

```
<400> 1050
Met Arg Ala Leu Val Leu Leu Gly Cys Leu Leu Ala Ser Leu Leu Phe
1               5                   10                  15
Ser Gly Gln Ala Glu Glu Thr Glu Asp Ala Asn Glu Glu Ala Pro Leu
            20                  25                  30
Arg Asp Arg Ser His Ile Glu Lys Thr Leu Met Leu Asn Glu Asp Lys
            35                  40                  45
Pro Ser Asp Asp Tyr Ser Ala Val Leu Gln Arg Leu Arg Lys Ile Tyr
        50                  55                  60
His Ser Ser Ile Lys Pro Leu Glu Gln Ser Tyr Lys Tyr Asn Glu Leu
65                  70                  75                  80
Arg Gln His Glu Ile Thr Asp Gly Glu Ile Thr Ser Lys Pro Met Val
                85                  90                  95
Leu Phe Leu Gly Pro Trp Ser Val Gly Lys Ser Thr Met Ile Asn Tyr
            100                 105                 110
Leu Leu Gly Leu Glu Asn Thr Arg Tyr Gln Leu Tyr Thr Gly Ala Glu
            115                 120                 125
Pro Thr Thr Ser Glu Phe Thr Val Leu Met His Gly Pro Lys Leu Lys
        130                 135                 140
Thr Ile Glu Gly Ile Val Met Ala Ala Asp Ser Ala Arg Ser Phe Ser
145                 150                 155                 160
Pro Leu Glu Lys Phe Gly Gln Asn Phe Leu Glu Lys Leu Ile Gly Ile
                165                 170                 175
Glu Val Pro His Lys Leu Leu Glu Arg Val Thr Phe Val Asp Thr Pro
            180                 185                 190
Gly Ile Ile Glu Asn Arg Lys Gln Gln Glu Arg Gly Tyr Pro Phe Asn
            195                 200                 205
Asp Val Cys Gln Trp Phe Ile Asp Arg Ala Asp Leu Ile Phe Val Val
        210                 215                 220
Phe Asp Pro Thr Lys Leu Asp Val Gly Leu Glu Leu Glu Met Leu Phe
225                 230                 235                 240
Arg Gln Leu Lys Gly Arg Glu Ser Gln Ile Arg Ile Ile Leu Asn Lys
                245                 250                 255
Ala Asp Asn Leu Ala Thr Gln Met Leu Met Arg Val Tyr Gly Ala Leu
            260                 265                 270
Phe Trp Ser Leu Ala Pro Leu Ile Asn Val Thr Glu Pro Pro Arg Val
            275                 280                 285
Tyr Val Ser Ser Phe Trp Pro Gln Glu Tyr Lys Pro Asp Thr His Gln
            290                 295                 300
```

```
Glu Leu Phe Leu Gln Glu Glu Ile Ser Leu Leu Glu Asp Leu Asn Gln
305                 310                 315                 320
Val Ile Glu Asn Arg Leu Glu Asn Lys Ile Ala Phe Ile Arg Gln His
                325                 330                 335
Ala Ile Arg Val Arg Ile His Ala Leu Leu Val Asp Arg Tyr Leu Gln
                340                 345                 350
Thr Tyr Lys Asp Lys Met Thr Phe Phe Ser Asp Gly Glu Leu Val Phe
            355                 360                 365
Lys Asp Ile Val Glu Asp Pro Asp Lys Phe Tyr Ile Phe Lys Thr Ile
        370                 375                 380
Leu Ala Lys Thr Asn Val Ser Lys Phe Asp Leu Pro Asn Arg Glu Ala
385                 390                 395                 400
Tyr Lys Asp Phe Phe Gly Ile Asn Pro Ile Ser Ser Phe Lys Leu Leu
                405                 410                 415
Ser Gln Gln Cys Ser Tyr Met Gly Gly Cys Phe Leu Glu Lys Ile Glu
                420                 425                 430
Arg Ala Ile Thr Gln Glu Leu Pro Gly Leu Leu Gly Ser Leu Gly Leu
                435                 440                 445
Gly Lys Asn Pro Gly Ala Leu Asn Cys Asp Lys Thr Gly Cys Ser Glu
450                 455                 460
Thr Pro Lys Asn Arg Tyr Arg Lys His  *
465                 470             473
```

```
        <210> 1051
        <211> 47
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1051
Met Gln Arg Pro Ser Ala Trp Trp Ile Leu Phe Cys Ser Leu Asn Leu
1               5               10                  15
Leu Ala Arg Phe Ile Gln Cys Leu Gln Ile Val Asn Lys Glu Val His
                20              25                  30
Phe Phe Arg Tyr Ile Lys Tyr Tyr Lys Phe Trp Glu Gly Arg  *
            35              40              45  46
```

```
        <210> 1052
        <211> 233
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1052
Met Ala Trp Thr Pro Leu Trp Leu Thr Leu Leu Thr Leu Cys Ile Gly
1               5               10                  15
Ser Val Val Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala
                20              25                  30
Leu Gly Gln Thr Leu Arg Ile Lys Cys Gln Gly Asp Thr Ile Arg Ser
            35              40              45
Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Ile Leu
        50              55              60
Val Ile Tyr Gly Gln Asn Asn Arg Pro Ser Gly Ile Pro Gly Arg Phe
65                  70              75                  80
Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu
```

```
                         85                    90                    95
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Cys Ser Tyr Ala Gly Arg
            100                   105                   110
Thr Thr Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
        115                   120                   125
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
    130                   135                   140
Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe Tyr
145                   150                   155                   160
Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
                165                   170                   175
Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
            180                   185                   190
Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
        195                   200                   205
Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
    210                   215                   220
Thr Val Ala Pro Thr Glu Cys Ser  *
225                   230       232
```

```
        <210> 1053
        <211> 147
        <212> PRT
        <213> Homo sapiens


        <400> 1053
Met Gly Ala Asp Arg Gly Pro His Val Val Leu Trp Thr Leu Ile Cys
  1           5                   10                   15
Leu Pro Val Val Phe Ile Leu Ser Phe Val Val Ser Phe Tyr Tyr Gly
            20                   25                   30
Thr Ile Thr Trp Tyr Asn Ile Phe Leu Val Tyr Asn Glu Glu Arg Thr
        35                   40                   45
Phe Trp His Lys Ile Ser Tyr Cys Pro Cys Leu Val Leu Phe Tyr Pro
    50                   55                   60
Val Leu Ile Met Ala Met Ala Ser Ser Leu Gly Leu Tyr Ala Ala Val
65                   70                   75                   80
Val Gln Leu Ser Trp Ser Trp Glu Ala Trp Trp Gln Ala Ala Arg Asp
                85                   90                   95
Met Glu Lys Gly Phe Cys Gly Trp Leu Cys Ser Lys Leu Gly Leu Glu
            100                  105                  110
Asp Cys Ser Pro Tyr Ser Ile Val Glu Leu Leu Glu Ser Asp Asn Ile
        115                  120                  125
Ser Ser Thr Leu Ser Asn Lys Asp Pro Ile Gln Glu Val Glu Thr Ser
    130                  135                  140
Thr Val  *
145 146
```

```
        <210> 1054
        <211> 123
        <212> PRT
        <213> Homo sapiens


        <400> 1054
```

```
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
1                5                    10                   15
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
            20                    25                   30
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
        35                    40                   45
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
    50                    55                   60
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Trp
65                    70                   75                   80
Glu Asp Leu Gly Gln Ala Pro Thr Met Asp Ser Pro Leu Glu Lys Asn
            85                    90                   95
Pro Arg Ser Ala Gly Arg Ile Arg His Arg His Gly Ser Pro His Pro
            100                   105                  110
Ser Arg Arg Thr Ala Pro Ala Val Ala Thr  *
            115                   120 122
```

```
<210> 1055
<211> 122
<212> PRT
<213> Homo sapiens
```

```
<400> 1055
Met Leu Thr Cys Leu Phe Ser Phe Gln Gly Cys Trp Arg Ala Arg Gly
1                5                    10                   15
Trp Gln Arg Leu Cys Glu Gly Arg Arg Gly Trp Pro Gly Val Gly Gln
            20                    25                   30
Arg Thr Leu Lys Val Ser Glu Pro Ala Pro Leu Arg Val Gly Arg Ala
        35                    40                   45
Leu Pro Gln Ala Leu Leu Gly Ala Arg Pro His Cys Val Phe Pro Gly
    50                    55                   60
Gly Glu Val Leu Gly Val Glu Ala Ala Phe Gly Ser Ser Phe Ile Leu
65                    70                   75                   80
Ser Thr Phe Phe Leu His Gln Pro Leu Phe Phe Pro Gly Pro Lys Leu
            85                    90                   95
Arg Ala Thr Gln Tyr Leu Ile Ser Ser Asp Pro Thr His Leu Pro Ala
            100                   105                  110
Gly Arg Gly Pro Asn Ser Val Ser Met  *
            115                   120 121
```

```
<210> 1056
<211> 51
<212> PRT
<213> Homo sapiens
```

```
<400> 1056
Met Pro Thr Lys Leu Ser Ala Val Gly Ile Leu Val Gly Thr Leu Val
1                5                    10                   15
Ala Ile Gly Ile Phe Leu Ile Leu Ile Phe Thr His Trp Thr Met Ser
            20                    25                   30
Arg Lys Lys Asp Pro Asp Gln Pro Ala Asp Ser Val Pro Leu Lys Ala
            35                    40                   45
Thr Val  *
```

50

```
<210> 1057
<211> 260
<212> PRT
<213> Homo sapiens


<400> 1057
Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
1               5                   10                  15
Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
            20                  25                  30
Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
        35                  40                  45
Val Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
    50                  55                  60
Arg Pro Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala
65                  70                  75                  80
Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
                85                  90                  95
Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Arg Asp
            100                 105                 110
Asn Trp Pro Pro Gly Ala Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
            115                 120                 125
Lys His Thr Thr Gly Glu Ile Val Leu Thr Gln Ala Pro Gly Thr Leu
    130                 135                 140
Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln
145                 150                 155                 160
Thr Ile Gly Ser Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
                165                 170                 175
Ala Pro Lys Leu Leu Ile Tyr Trp Phe Ile Gln Phe Ala Lys Arg Gly
            180                 185                 190
Pro Ile Lys Val Gln Cys His Arg Val Arg Gly Gln Thr Ser Leu Ser
            195                 200                 205
Pro Ser Ala Asp Trp Ser Leu Lys Ile Leu Gln Cys Ile Ser Val Thr
    210                 215                 220
Asn Met Gly Ala His Pro Thr Leu Leu Ala Glu Gly Pro Arg Trp Arg
225                 230                 235                 240
Ser Asn Glu Leu Trp Leu His His Leu Ser Ser Ser Ser Arg His Leu
                245                 250                 255
Met Ser Ser   *
        259



<210> 1058
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1058
Met Lys Gly Leu Phe Cys Leu Trp Pro Leu Val Arg Ser Val Ser Ser
1               5                   10                  15
Leu Met Thr Ser Ser Thr Ser Cys Pro Ser Pro Pro Thr Leu Pro Pro
            20                  25                  30
```

```
Trp Arg Pro Cys Leu Pro Arg Leu Arg Met Arg Val Leu Val Leu Leu
        35              40              45
Ile Trp Ser  *
    50  51
```

```
<210> 1059
<211> 97
<212> PRT
<213> Homo sapiens
```

```
<400> 1059
Met Gly Arg Gly Ser Glu Leu Pro Val Cys Leu Ala Phe Leu Val Cys
1           5               10              15
Leu Met Ala Ala Leu Gly Cys Cys Glu Val Leu Ser Thr Val His Pro
            20              25              30
Glu Glu Thr Val Leu Arg Ala Pro Pro Thr Asn Phe Gln Arg Cys Gln
        35              40              45
Leu Gln Gln Gly Ser Ala Leu Val Arg Glu Thr Ala Trp Gly Val Gly
    50              55              60
Arg Gly Arg Pro Ser Glu Arg Trp His Gly Glu Leu Ala Gly Gly Gly
65              70              75              80
Ser Arg Arg Asp Gly Met Glu Gly Leu Gly Pro Val Leu Leu Gly Ala
            85              90              95  96
  *
```

```
<210> 1060
<211> 99
<212> PRT
<213> Homo sapiens
```

```
<400> 1060
Met Asn Lys His Phe Leu Phe Leu Phe Leu Leu Tyr Cys Leu Ile Ala
1           5               10              15
Ala Val Thr Ser Leu Gln Cys Ile Thr Cys His Leu Arg Thr Arg Thr
            20              25              30
Asp Arg Cys Arg Arg Gly Phe Gly Val Cys Thr Ala Gln Lys Gly Glu
        35              40              45
Ala Cys Met Leu Leu Arg Ile Tyr Gln Arg Asn Thr Leu Gln Ile Ser
    50              55              60
Tyr Met Val Cys Gln Lys Phe Cys Arg Asp Met Thr Phe Asp Leu Arg
65              70              75              80
Asn Arg Thr Tyr Val His Thr Cys Cys Asn Tyr Asn Tyr Cys Asn Phe
            85              90              95
Lys Leu  *
    98
```

```
<210> 1061
<211> 64
<212> PRT
<213> Homo sapiens
```

<400> 1061
Met Asn Val Val Ser Leu Val Ile Leu Phe Trp Ala Ile Tyr Cys Val
1   5   10   15
Thr Ile Cys Met Asp Leu Tyr Leu Lys His Phe Cys Lys Lys Phe Phe
                20   25   30
Lys Val Phe Phe Lys Cys Val Ile Ile Cys Ala Phe Lys Ser Ile Leu
            35   40   45
His Phe Ser Leu Ile Cys Thr Phe Lys Lys Ile Phe Phe Phe Phe *.
        50   55   60   63

<210> 1062
<211> 149
<212> PRT
<213> Homo sapiens

<400> 1062
Met Tyr Leu Ser Asn Thr Thr Val Thr Ile Leu Ala Asn Leu Val Pro
1   5   10   15
Phe Thr Leu Thr Leu Ile Ser Phe Leu Leu Leu Ile Cys Ser Leu Cys
                20   25   30
Lys His Leu Lys Lys Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro
        35   40   45
Ser Met Lys Val His Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu
    50   55   60
Leu Leu Cys Ala Ile Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn
65   70   75   80
Phe Gly Arg Leu Glu Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile
                85   90   95
Ile Phe Ser Tyr Pro Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn
                100   105   110
Lys Lys Leu Lys Gln Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr
            115   120   125
Trp Val Lys Asp Arg Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala
    130   135   140
Leu Cys Val Phe *
145   148

<210> 1063
<211> 63
<212> PRT
<213> Homo sapiens

<400> 1063
Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
1   5   10   15
Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro
                20   25   30
Cys Ala Leu Trp His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg
            35   40   45
Glu Ala Ser Gln Ile Leu Pro Tyr His His Gln Gly Ser Cys *
        50   55   60   62

<210> 1064
<211> 92
<212> PRT
<213> Homo sapiens

<400> 1064
Met Met Leu Met Ser Leu Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly
1   5   10   15
Phe Leu Arg Asp Glu Thr Gly Asp Phe Thr Ala Ser Phe Leu Leu Ser
            20   25   30
Gly Ser Leu Ile Leu Ser Gly Ser Phe Ile Tyr Ile Gly Leu Pro Arg
        35   40   45
Ala Leu Pro Ser Cys Gly Pro Ala Ser Pro Pro Ala Thr Pro Pro Pro
    50   55   60
Glu Thr Gly Glu Leu Leu Pro Ala Pro Gln Ala Val Leu Leu Ser Pro
65   70   75   80
Gly Gly Pro Gly Ser Thr Leu Asp Thr Thr Cys   *
            85   90 91

<210> 1065
<211> 67
<212> PRT
<213> Homo sapiens

<400> 1065
Met Phe Leu Glu His Ala Ile His Cys Ser Leu Leu Phe Leu Ser Gln
1   5   10   15
Leu Pro Leu Leu Pro Pro Leu Val Phe Leu Leu Leu Ser His Leu Leu
            20   25   30
Ser Glu Val Pro Leu Ile Gln Gln Pro Pro Ser Leu Ser Pro Tyr Pro
        35   40   45
Asp Leu Leu Ser Pro Phe Ser Val Thr Arg Leu Pro Ser Asn Ile Leu
    50   55   60
Cys Asn   *
65 66

<210> 1066
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1066
Met Gly Gln Val Pro Cys Cys Trp Ala Trp Trp Ser Leu Leu Gln Gly
1   5   10   15
Arg Gly Ser Trp Cys Glu His Lys Glu Leu Arg Gly Trp Arg Arg Pro
            20   25   30
Gly Pro Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro
        35   40   45
Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro Asp Ser

622

```
        50                      55                    60
Leu Ala Gly Trp Asp Leu Thr Gly Ala Pro Gly Ser Leu Gly
65                      70                    75        78
```

```
        <210> 1067
        <211> 55
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1067
Met Tyr Phe Gly Ala Tyr Ala Phe Thr Val Ala Pro Arg Leu Ala Ile
1               5                   10                  15
Leu Gln Val Val Asn Val Ile Ser Tyr Lys Asp Ile Arg His Phe Tyr
            20                  25                  30
Leu Arg His Trp Arg Asn Glu Arg Asn Cys Ile Cys His Val Asp Gly
        35                  40                  45
Ala Leu Ile Lys Glu Gln  *
    50              54
```

```
        <210> 1068
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1068
Met His Val Cys Met Pro Leu Cys Leu Phe Leu Leu Ser Phe Ser Val
1               5                   10                  15
Ser Pro Asp Pro Arg Leu Leu Arg Met Glu Arg Leu Phe Arg Gly Cys
            20                  25                  30
Ala Gln Asp Cys Pro Phe Leu Ala Leu His Gln Gly Glu Leu Trp  *
        35                  40                  45      47
```

```
        <210> 1069
        <211> 64
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1069
Met Ser Asn Leu Gln Phe Ile Phe Lys Asp Phe Gly Ile Leu Ile Lys
1               5                   10                  15
Phe Trp Tyr Leu His Ile Lys Phe Gly Phe Tyr Ile Thr Ser Cys Leu
            20                  25                  30
Leu Cys Phe Pro Pro Ser Phe Met Leu Phe Phe Gly Phe Trp Pro His
        35                  40                  45
Asp Tyr Asn Leu Arg Phe Cys Ile His Ile Thr Phe Cys His Phe  *
    50                  55                  60          63
```

```
        <210> 1070
```

```
<211> 73
<212> PRT
<213> Homo sapiens


<400> 1070
Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly
 1               5                  10                  15
Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly
            20                  25                  30
Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
        35                  40                  45
Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
    50                  55                  60
His Arg Gly Leu Ile Pro Tyr Val  *
65                  70      72



<210> 1071
<211> 152
<212> PRT
<213> Homo sapiens


<400> 1071
Met Phe Trp Thr Met Ile Ile Leu Leu Gln Val Leu Ile Pro Ile Ser
 1               5                  10                  15
Leu Tyr Val Ser Ile Glu Ile Val Lys Leu Gly Gln Ile Tyr Phe Ile
            20                  25                  30
Gln Ser Asp Val Asp Phe Tyr Asn Glu Lys Met Asp Ser Ile Val Gln
        35                  40                  45
Cys Arg Ala Leu Asn Ile Ala Glu Asp Leu Gly Gln Ile Gln Tyr Leu
    50                  55                  60
Phe Ser Asp Lys Thr Gly Thr Leu Thr Glu Asn Lys Met Val Phe Arg
65                  70                  75                  80
Arg Trp Ser Gly Gly Arg Phe Asp Tyr Cys Pro Gly Glu Lys Ala Arg
                85                  90                  95
Arg Val Glu Ser Phe Gln Glu Ala Ala Phe Glu Glu Glu His Phe Leu
            100                 105                 110
Thr Thr Gly Arg Gly Phe Leu Thr His Met Ala Asn Pro Arg Ala Pro
            115                 120                 125
Pro Leu Ala Asp Thr Phe Lys Met Gly Ala Ser Gly Arg Leu Ser Pro
    130                 135                 140
Pro Ser Leu Thr Ala Arg Gly Ala
145                 150     152



<210> 1072
<211> 113
<212> PRT
<213> Homo sapiens


<400> 1072
Met Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr
 1               5                  10                  15
Gly Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu
```

624

```
                20                   25                    30
Ser Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln
            35                   40                   45
Glu Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro
        50                   55                   60
Val Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln
65                   70                   75                   80
Val Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu
                85                   90                   95
Leu Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
            100                  105                  110  112
 *
```

```
        <210> 1073
        <211> 52
        <212> PRT
        <213> Homo sapiens


        <400> 1073
Met Thr Leu Cys Cys Pro Trp Ala Thr Met His Pro Ser Thr Val Leu
1                5                   10                   15
Arg Met Val Trp Ser Leu Arg Ser Arg Ala Arg Arg Trp Gly Ser Val
            20                   25                   30
Arg Thr Gly Leu Ser Trp Ser Ser Ser Ser Asp Ser Arg Ile Thr Ser
        35                   40                   45
Leu Ser Leu  *
    50  51


        <210> 1074
        <211> 78
        <212> PRT
        <213> Homo sapiens


        <400> 1074
Met Phe Ser Arg Leu Tyr Ala Val Cys Met Leu Tyr Met Trp Gly Phe
1                5                   10                   15
Val Asp Lys Met Cys Val Trp Ser Val Met Gln Val Cys Tyr Cys Leu
            20                   25                   30
Val Phe Val Tyr Val Phe Leu Cys Met Val Cys Arg Val Arg Ala His
        35                   40                   45
Asp His Ile Gln Ile Leu Asp Pro Tyr Ser Arg Leu Val Leu Ser Arg
    50                   55                   60
Leu Pro Arg Leu Glu Thr Gly Lys Asp Ser Ser Ser Leu  *
65                   70                   75  77


        <210> 1075
        <211> 253
        <212> PRT
        <213> Homo sapiens
```

<400> 1075

```
Met Ser Ser Ser Pro Gly Leu Leu Phe Ser Ser Leu Ser His Leu Leu
1               5                   10                  15
Leu Asn Ser Ser Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met
            20                  25                  30
Thr Cys Leu Gln Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val
        35                  40                  45
Gly Cys Cys His Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu
    50                  55                  60
Glu Leu Asp Leu Ser His Asn Gln Ile Gly Asp Ala Gly Asp Gln His
65                  70                  75                  80
Leu Ala Thr Ile Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu
                85                  90                  95
Ser Gly Asn Ser Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser
            100                 105                 110
Leu Val Leu Cys Arg Arg Leu Glu Glu Leu Met Leu Gly Cys Asn Ala
        115                 120                 125
Leu Gly Asp Pro Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His
    130                 135                 140
Leu Arg Val Leu His Leu Pro Phe Ser His Leu Gly Pro Asp Gly Ala
145                 150                 155                 160
Leu Ser Leu Ala Gln Asp Leu Asp Gly Ser Pro His Leu Glu Glu Ile
            165                 170                 175
Ser Leu Ala Glu Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met
        180                 185                 190
Glu Leu Pro Leu Leu Arg Gln Ile Glu Leu Ser Trp Asn Leu Leu Gly
        195                 200                 205
Asp Glu Ala Ala Ala Glu Leu Ala Gln Val Leu Pro Gln Met Gly Arg
    210                 215                 220
Leu Lys Arg Val Glu Tyr Glu Gly Pro Gly Glu Glu Trp Asp Gly Leu
225                 230                 235                 240
Lys Gly Asp Leu His Pro Gly Asn Thr Lys Arg Pro Leu
            245                 250                 253
```

<210> 1076
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1076

```
Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
1               5                   10                  15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
            20                  25                  30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
        35                  40                  45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu  *
    50                  55                  60                  63
```

<210> 1077
<211> 147
<212> PRT
<213> Homo sapiens

<400> 1077
```
Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
1               5                   10                  15
Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro
            20                  25                  30
Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser
        35                  40                  45
Asp Arg Gly Ser Gln Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys
    50                  55                  60
Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp
65                  70                  75                  80
Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu
            85                  90                  95
Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
            100                 105                 110
Asp Tyr Ser Gly Asn Thr Pro Leu Val Phe Gly Lys Gly Thr Arg Leu
        115                 120                 125
Ser Val Ile Ala Asn Ile Gln Asn Pro Asp Pro Ala Leu Tyr Gln Leu
    130                 135                 140
Arg Asp Ser
145     147
```

<210> 1078
<211> 55
<212> PRT
<213> Homo sapiens

<400> 1078
```
Met Phe Gln Gly Ser Asn Ile Leu Phe Leu Leu Pro Ser Pro Gly Ile
1               5                   10                  15
Thr Ser Ile Asn Asp Arg Thr Tyr Phe Leu Phe Val Met Arg Ser Asn
            20                  25                  30
Trp Leu Phe Leu Leu Thr Cys Leu Ile Ala Phe Gln Lys Asn Asn Lys
        35                  40                  45
Ser Leu Lys Leu Leu Lys *
    50              54
```

<210> 1079
<211> 97
<212> PRT
<213> Homo sapiens

<400> 1079
```
Met Ile Pro Ala Phe Gly Ile Phe Arg Leu Leu Ile Ile Ile Leu Ile
1               5                   10                  15
Ile Val Leu Asp Met Gly Phe Ala Leu Tyr Arg Arg Phe Phe Val Pro
            20                  25                  30
Glu Asp Gly Ser Pro Val Ser Phe Ala Ala His Ile Ala Gly Gly Phe
        35                  40                  45
Ala Gly Met Ser Ile Gly Tyr Thr Val Phe Ser Cys Phe Asp Lys Ala
    50                  55                  60
```

627

```
Leu Met Lys Asp Pro Arg Phe Trp Ile Ala Ile Ala Ala Tyr Leu Ala
65              70              75                          80
Cys Val Leu Phe Ala Val Phe Phe Asn Ile Phe Leu Ser Pro Ala Asn
                85              90                      95  96
 *
```

```
<210> 1080
<211> 134
<212> PRT
<213> Homo sapiens
```

```
<400> 1080
Met Leu Ser Ile Leu Leu Ala Thr Leu Thr Leu Ser Leu Lys Glu Lys
1               5               10                      15
Arg Gly Glu Arg Ser Ile His Gln Pro Glu Pro Ser Glu Lys Ser Val
            20              25              30
Cys Leu Pro Val Ser Gly Ala Asp Pro Phe Arg Gly Ser Arg Gly Arg
            35              40              45
Gly Lys Glu Ile Arg Arg Glu Lys Asp Ile Gly Leu Leu Glu His Val
    50              55              60
Gly Gln Glu Val Pro Arg Arg Ile Cys Glu Gln Leu Pro Asp Ser Lys
65              70              75                          80
Ala Leu Ala Arg Pro Gln Asp Gly Pro Cys Leu Leu Asp Ile Arg Lys
            85              90                      95
Pro Lys Gly Gln Asn Lys Asn Thr Cys Leu Val Gly Glu Gly Ser Leu
            100             105             110
Arg Gly His Gln Val Gly Gln Ile Pro Leu Val Thr His Leu Trp Arg
            115             120             125
Leu Pro Gln Lys Cys   *
    130         133
```

```
<210> 1081
<211> 185
<212> PRT
<213> Homo sapiens
```

```
<400> 1081
Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
1               5               10                      15
Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
            20              25              30
Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
            35              40              45
Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
65              55              60
Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
65              70              75                          80
Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
            85              90                      95
Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
            100             105             110
Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys
```

628

```
               115                    120                    125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
          130                    135                    140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
145                    150              /    155                    160
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
                  165                    170                    175
Ser Ile Cys Ala Asp Ile His Val  *
              180                    184
```

```
        <210> 1082
        <211> 285
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(285)
        <223> Xaa = any amino acid or nothing


        <400> 1082
Met Val Ile Ala Leu Ile Ile Phe Leu Arg Ser Pro Ala Met Ala Gly
 1                   5                    10                    15
Gly Leu Phe Ala Ile Glu Arg Glu Phe Phe Phe Glu Leu Gly Leu Tyr
              20                    25                    30
Asp Pro Gly Leu Gln Ile Trp Gly Gly Glu Asn Phe Glu Ile Ser Tyr
          35                    40                    45
Lys Ile Trp Gln Cys Gly Gly Lys Leu Leu Phe Xaa Pro Cys Ser Arg
    50                    55                    60
Val Gly His Ile Tyr Arg Leu Glu Gly Trp Gln Gly Asn Pro Pro Pro
65                    70                    75                    80
Ile Tyr Val Gly Ser Ser Pro Thr Leu Lys Asn Tyr Val Arg Val Val
                  85                    90                    95
Glu Val Trp Trp Asp Glu Tyr Lys Asp Tyr Phe Tyr Ala Ser Arg Pro
              100                    105                    110
Glu Ser Gln Ala Leu Pro Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe
          115                    120                    125
Arg Glu Asp His Asn Cys Lys Ser Phe Lys Trp Phe Met Glu Glu Ile
          130                    135                    140
Ala Tyr Asp Ile Thr Ser His Tyr Pro Leu Pro Pro Lys Asn Val Asp
145                    150                    155                    160
Trp Gly Glu Ile Arg Gly Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met
                  165                    170                    175
Gly Lys Thr Asn Gly Gly Phe Val Glu Leu Gly Pro Cys His Arg Met
              180                    185                    190
Gly Gly Asn Gln Leu Phe Arg Ile Asn Glu Ala Asn Gln Leu Met Gln
              195                    200                    205
Tyr Asp Gln Cys Leu Thr Lys Gly Ala Asp Gly Ser Lys Val Met Ile
    210                    215                    220
Thr His Cys Asn Leu Asn Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn
225                    230                    235                    240
Leu His Arg Phe Thr His Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser
              245                    250                    255
Glu Val Leu His Gln Val Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr
              260                    265                    270
Thr Gln Lys Trp Glu Met Asn Asn Ile His Ser Val  *
        275                    280                    284
```

                                  629

```
    <210> 1083
    <211> 73
    <212> PRT
    <213> Homo sapiens


    <400> 1083
Met Phe Trp Phe Leu Asn Ile Phe Ile Leu Ile Leu Ser Lys His Ser
1               5                   10                  15
Ser Lys Ser Leu Ser Leu Gln Leu Pro Glu Val Leu Leu Leu Phe Leu
            20                  25                  30
Cys Gln Phe Cys Leu Arg Leu His Pro Val Arg Gly Leu Arg Leu His
            35                  40                  45
Phe Lys Ala Lys Leu Ala Asn His His Val Ile Cys Ile Gly Leu Gly
        50                  55                  60
Phe Phe Leu Phe Val Ser Val Leu  *
65                  70          72
```

```
    <210> 1084
    <211> 56
    <212> PRT
    <213> Homo sapiens


    <400> 1084
Met Ile Phe Gly Thr Asp Cys Cys Ala Leu Ser Lys Tyr Met Trp Ala
1               5                   10                  15
Phe Val Phe Phe Leu Ile Lys Ala Arg Trp Arg Glu Lys Asn Pro Cys
            20                  25                  30
Phe Asp Asp Ser Leu Arg Pro Glu Gln Cys Leu Leu Asp Glu Gly Ser
            35                  40                  45
Leu Glu Lys Arg Tyr Ser Met  *
        50              55
```

```
    <210> 1085
    <211> 68
    <212> PRT
    <213> Homo sapiens


    <400> 1085
Met Gln Ile Phe Leu Leu Leu Tyr Ala Leu Gly Arg Phe Val Leu Leu
1               5                   10                  15
Val Thr Phe Ser Pro Leu Val Leu Ser Leu Ser Tyr Pro Val Leu Val
            20                  25                  30
Ser Phe Tyr Leu Arg Tyr Pro Ser Val Leu Phe Val Phe Leu His Asn
            35                  40                  45
Val Val Ser Leu Val Phe Gly Tyr Pro Leu Gln Asn Gln Gln Gly Leu
        50                  55                  60
Ile His Pro  *
65      67
```

630

```
<210> 1086
<211> 62
<212> PRT
<213> Homo sapiens


<400> 1086
Met Cys Pro Phe Met Pro Pro Pro Gly Leu Leu Arg Leu Phe Gln Ile
1               5                   10                  15
Val Phe Trp Val Glu His Pro Gly Ser Val Asn Pro Phe Glu Arg Ser
            20                  25                  30
Thr Ile Ile Gly Arg Ser Ala Lys Leu Lys Lys Asp Leu Lys Ser His
        35                  40                  45
Trp Glu Pro Gly Gln Gln Ala Leu Gln Gln Gly Leu Leu   *
    50                  55                  60  61



<210> 1087
<211> 294
<212> PRT
<213> Homo sapiens


<400> 1087
Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
1               5                   10                  15
Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
            20                  25                  30
Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
        35                  40                  45
Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
    50                  55                  60
Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
65              70                  75                  80
Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
            85                  90                  95
Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
            100                 105                 110
Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
        115                 120                 125
Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
    130                 135                 140
Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
145                 150                 155                 160
Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
            165                 170                 175
Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
            180                 185                 190
Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
        195                 200                 205
Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
    210                 215                 220
Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
225                 230                 235                 240
Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
            245                 250                 255
```

```
Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
            260                 265                 270
Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
            275                 280                 285
Gln Ala Asn Ser Thr  *
    290         293
```

```
<210> 1088
<211> 477
<212> PRT
<213> Homo sapiens
```

```
<400> 1088
Met Gln Trp Lys Val Thr Leu Thr Ser Arg Trp Gly Leu Leu Arg His
1               5                   10                  15
Cys Gln Val Leu Ala Gly Leu Leu His Leu Gly Asn Ile Gln Phe Ala
            20                  25                  30
Ala Ser Glu Asp Glu Ala Gln Pro Cys Gln Pro Met Asp Asp Ala Lys
            35                  40                  45
Tyr Ser Val Arg Thr Ala Ala Ser Leu Leu Gly Leu Pro Glu Asp Val
    50                  55                  60
Leu Leu Glu Met Val Gln Ile Lys Thr Ile Arg Ala Gly Arg Gln Gln
65                  70                  75                  80
Gln Val Phe Arg Lys Pro Cys Ala Arg Ala Glu Cys Asp Thr Arg Arg
            85                  90                  95
Asp Cys Leu Ala Lys Leu Ile Tyr Ala Arg Leu Phe Asp Trp Leu Val
            100                 105                 110
Ser Val Ile Asn Ser Ser Ile Cys Ala Asp Thr Asp Ser Trp Thr Thr
    115                 120                 125
Phe Ile Gly Leu Leu Asp Val Tyr Gly Phe Glu Ser Phe Pro Asp Asn
    130                 135                 140
Ser Leu Glu Gln Leu Cys Ile Asn Tyr Ala Asn Glu Lys Leu Gln Gln
145                 150                 155                 160
His Phe Val Ala His Tyr Leu Arg Ala Gln Gln Glu Glu Tyr Ala Val
            165                 170                 175
Glu Gly Leu Glu Trp Ser Phe Ile Asn Tyr Gln Asp Asn Gln Pro Cys
            180                 185                 190
Leu Asp Leu Ile Glu Gly Ser Pro Ile Ser Ile Cys Ser Leu Ile Asn
            195                 200                 205
Glu Glu Cys Arg Leu Asn Arg Pro Ser Ser Ala Ala Gln Leu Gln Thr
    210                 215                 220
Arg Ile Glu Thr Ala Leu Ala Gly Ser Pro Cys Leu Gly His Asn Lys
225                 230                 235                 240
Leu Ser Arg Glu Pro Ser Phe Ile Val Val His Tyr Ala Gly Pro Val
            245                 250                 255
Arg Tyr His Thr Ala Gly Leu Val Glu Lys Asn Lys Asp Pro Ile Pro
            260                 265                 270
Pro Glu Leu Thr Arg Leu Leu Gln Gln Ser Gln Asp Pro Leu Leu Met
            275                 280                 285
Gly Leu Phe Pro Thr Asn Pro Lys Glu Lys Thr Gln Glu Glu Pro Pro
    290                 295                 300
Gly Gln Ser Arg Ala Pro Val Leu Thr Val Val Ser Lys Phe Lys Ala
305                 310                 315                 320
Ser Leu Glu Gln Leu Leu Gln Val Leu His Ser Thr Thr Pro His Tyr
            325                 330                 335
Ile Arg Cys Ile Met Pro Asn Ser Gln Gly Gln Ala Gln Thr Phe Leu
```

632

```
                340                     345                     350
Gln Glu Glu Val Leu Ser Gln Leu Glu Ala Cys Gly Leu Val Glu Thr
            355                     360                     365
Ile His Ile Ser Ala Ala Gly Phe Pro Ile Arg Val Ser His Arg Asn
        370                     375                     380
Phe Val Glu Arg Tyr Lys Leu Leu Arg Arg Leu His Pro Cys Thr Ser
385                     390                     395                     400
Ser Gly Pro Asp Ser Pro Tyr Pro Ala Lys Gly Leu Pro Glu Trp Cys
                405                     410                     415
Pro His Ser Glu Glu Ala Thr Leu Glu Pro Leu Ile Gln Asp Ile Leu
            420                     425                     430
His Thr Leu Pro Val Leu Thr Gln Ala Ala Ala Ile Thr Gly Asp Ser
            435                     440                     445
Ala Glu Ala Met Pro Ala Pro Met His Cys Gly Arg Thr Lys Val Phe
    450                     455                     460
Met Thr Asp Ser Met Leu Glu Leu Leu Glu Cys Gly Ala
465                     470                     475     477
```

```
        <210> 1089
        <211> 66
        <212> PRT
        <213> Homo sapiens


        <400> 1089
Met Ala Ala Gly Val Ser Ser Val Leu Leu Leu Leu Phe Thr Leu Met
1               5                   10                      15
Glu Ser Gly Leu Lys His Arg Val Trp Glu Ser Trp Gln Leu Phe Thr
            20                      25                      30
Ser Trp Leu Ala Phe Cys Ser Pro Ser Phe Ser Val Val Phe Thr Cys
        35                      40                      45
Ser Tyr Ser Leu Ser Ser Trp Gly Leu Lys Gly Ile Ser Ser Arg Thr
    50                      55                      60
Arg *
65
```

```
        <210> 1090
        <211> 185
        <212> PRT
        <213> Homo sapiens


        <400> 1090
Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
1               5                   10                      15
Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
            20                      25                      30
Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
        35                      40                      45
Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
    50                      55                  60
Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
65                      70                      75                      80
Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
                85                      90                      95
```

633

```
Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
            100             105             110
Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
            115             120             125
Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
            130             135             140
Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
145             150             155             160
Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
            165             170             175
Ser Glu Val Asp Asp Ala Glu Glu  *
            180             184
```

```
<210> 1091
<211> 47
<212> PRT
<213> Homo sapiens
```

```
<400> 1091
Met Leu Gly Gly Asn Phe Leu Met Phe Leu Pro Pro Leu Gln Arg Leu
1               5               10                      15
Cys Ser Asn Leu Leu Ser Tyr Val Ile Pro Asn Asp Phe Ser Val Met
            20              25                      30
Ser Cys Phe Ile Lys Ala Ser Leu Asn Tyr Thr Leu Leu Ile  *
            35              40                      45  46
```

```
<210> 1092
<211> 46
<212> PRT
<213> Homo sapiens
```

```
<400> 1092
Met Val Leu Trp Asn Leu Met Leu His Ser Leu Ser Ala Val Thr Tyr
1               5               10                      15
Pro Pro Asp Leu Val Ser Trp Asn Leu His Phe Lys Gln Asn Pro Asp
            20              25                      30
His Ser Pro Leu Pro Gln Leu Thr Trp Glu Val Leu Pro  *
            35              40                      45
```

```
<210> 1093
<211> 64
<212> PRT
<213> Homo sapiens
```

```
<400> 1093
Met Thr Val Ser Phe Cys Cys Cys Trp Ile Leu Ala Val Leu Pro Ser
1               5               10                      15
Pro Pro Leu Tyr Gln Asp Leu Val Gly Ser Lys Leu Glu Ile Gln Ala
            20              25                      30
Ala Gly Asp Pro Met Pro Ala Ala Ser Arg Leu Phe His Glu Arg Gln
```

```
            35                    40                    45
Ser Leu Pro Gly Ala Pro Ala Thr Ser Ala Ser Pro Ser Val Leu  *
            50                    55                    60        63
```

```
        <210> 1094
        <211> 85
        <212> PRT
        <213> Homo sapiens


        <400> 1094
Met His Phe Leu Ala Thr Phe Ala Leu Phe Phe Ile Phe Gly Val Phe
1               5                   10                  15
Phe Leu Phe Ala Val Leu Thr Asn Leu Leu Leu Ala Glu Glu Val Asn
            20                  25                  30
Ile Arg Gly Gly Asn Phe Leu Gly Ser Phe Leu Val His Thr Leu Phe
        35                  40                  45
Leu Asp Gln Val Pro Gly Glu Ile Thr His Asp Ser His Leu Val Leu
    50                  55                  60
Ala Ile Thr Ile Asn Thr Ala Ser Pro Lys Phe Ser Ser Ser Ile Phe
65                  70                  75                  80
Phe Tyr Gln Leu  *
            84
```

```
        <210> 1095
        <211> 89
        <212> PRT
        <213> Homo sapiens


        <400> 1095
Met Ala Ser His Gly Glu Glu Asp Arg His Trp Leu Arg Ala Cys Thr
1               5                   10                  15
Trp Ile Trp Ala Leu Ser Leu Thr Leu Ser Val Ser Ser Ser Val Gly
            20                  25                  30
Trp Arg Arg Gly Gly Cys Arg Trp Leu Gly Arg Arg Asn Ala Thr Val
        35                  40                  45
Pro Arg Asn Ser Pro His Gly Thr Ser Cys Leu His Cys Val Leu Asp
    50                  55                  60
Ile Pro Ala Lys Cys Gly Arg Lys Arg Ser Gly Glu Gly Thr Phe Gln
65                  70                  75                  80
Ser Leu Leu Leu Phe Cys Thr Ala  *
            85          88
```

```
        <210> 1096
        <211> 158
        <212> PRT
        <213> Homo sapiens


        <400> 1096
Met Phe Val Ile Ala Phe Leu Ser Pro Leu Ser Leu Ile Phe Leu Ala
1               5                   10                  15
```

```
Lys Phe Leu Lys Lys Ala Asp Thr Arg Asp Ser Arg Gln Ala Cys Leu
            20                  25                  30
Ala Ala Ser Leu Ala Leu Ala Leu Asn Gly Val Phe Thr Asn Thr Ile
            35                  40                  45
Lys Leu Ile Val Gly Arg Pro Arg Pro Asp Phe Phe Tyr Arg Cys Phe
        50                  55                  60
Pro Asp Gly Leu Ala His Ser Asp Leu Met Cys Thr Gly Asp Lys Asp
65                  70                  75                  80
Val Val Asn Glu Gly Arg Lys Ser Phe Pro Ser Gly His Ser Ser Phe
                85                  90                  95
Ala Phe Ala Gly Leu Ala Phe Ala Ser Phe Tyr Leu Ala Gly Lys Leu
            100                 105                 110
His Cys Phe Thr Pro Gln Gly Arg Gly Lys Ser Trp Arg Phe Cys Ala
            115                 120                 125
Phe Leu Ser Pro Leu Leu Phe Ala Ala Val Ile Ala Leu Ser Arg Thr
        130                 135                 140
Cys Asp Tyr Lys His His Trp Gln Gly Pro Phe Lys Trp  *
145                 150                 155     157
```

```
<210> 1097
<211> 88
<212> PRT
<213> Homo sapiens
```

```
<400> 1097
Met Ile Thr Thr Ser Leu Lys Ser Ser Ser Arg Leu Cys Cys Phe Arg
1               5                   10                  15
Arg Ser Ile Phe Phe Thr Ala Thr Cys Phe Pro Val Cys Phe Ser Val
            20                  25                  30
Ala Met His Thr Met Pro Val Glu Pro Ser Pro Ile Leu Ile Lys Leu
        35                  40                  45
Ala Lys Tyr Ser Leu Gly Ser Pro Gly Leu Thr Thr Ser Cys Arg Ala
        50                  55                  60
Ala Arg Asn Cys Ser Trp Asp Thr Leu Glu Gly Cys Trp Ser Glu Glu
65                  70                  75                  80
Glu Pro Gln Leu Gly Gly Gly  *
                85          87
```

```
<210> 1098
<211> 58
<212> PRT
<213> Homo sapiens
```

```
<400> 1098
Met Met Ser Gly Trp Leu Leu Arg Ala Ala Ile Cys Arg Gly Leu Leu
1               5                   10                  15
Ser Ser Glu Ser Leu Thr Phe Thr Ser Ala Pro His Ser Ile Ser Ile
            20                  25                  30
Ala Val Thr Cys Arg Asp Gly Asn Leu Gln Thr Gly Tyr Arg Pro Thr
        35                  40                  45
His Val Val Phe Leu Ser Thr Ala Arg  *
        50                  55      57
```

```
<210> 1099
<211> 72
<212> PRT
<213> Homo sapiens


<400> 1099
Met Ala Ser Glu Pro Cys Trp Trp Ala Gly Met Leu Pro Cys Ala Cys
1               5                   10                  15
Ala Gly Leu Arg Arg Cys Ser His Ser Arg Phe Leu Gln Arg Gly His
            20                  25                  30
Gly Leu His Ser Leu Met Gly Ser Leu Pro Ala Pro Ile Ser Pro Pro
        35                  . 40                 45
Trp Thr His Pro Trp Gly Ile Ile Leu Pro Trp Pro Ile Arg Gly His
    50                  55                  60
Pro Ser Val Pro Ile Arg Leu   *
65                  70  71
```

```
<210> 1100
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1100
Met Ser Phe Phe Leu Ile Leu Gly Val Gly Ser Cys Leu Ser Tyr Ser
1               5                   10                  15
Leu Val Pro Leu Ile Ile Leu Ser Phe Cys His Phe Tyr Pro Glu Ser
            20                  25                  30
Val Gly Cys Pro Asp Ala Pro Ser Pro Arg Val Arg Gly Arg Val
        35                  40                  45  47
```

```
<210> 1101
<211> 130
<212> PRT
<213> Homo sapiens


<400> 1101
Met Arg Pro Leu Lys Pro Gly Ala Pro Leu Pro Ala Leu Phe Leu Leu
1               5                   10                  15
Ala Leu Ala Leu Ser Pro His Gly Ala His Gly Arg Pro Arg Gly Arg
            20                  25                  30
Arg Gly Ala Arg Val Thr Asp Lys Glu Pro Lys Pro Leu Leu Phe Leu
        35                  40                  45
Pro Ala Ala Gly Ala Gly Arg Thr Pro Ser Gly Ser Arg Ser Ala Glu
    50                  55                  60
Ile Phe Pro Arg Asp Ser Asn Leu Lys Asp Lys Phe Ile Lys His Phe
65                  70                  75                  80
Thr Gly Pro Val Thr Phe Ser Pro Glu Cys Ser Lys His Phe His Arg
                85                  90                  95
Leu Tyr Tyr Asn Thr Arg Glu Cys Ser Thr Pro Ala Tyr Tyr Lys Arg
            100                 .105                110
```

```
Cys Ala Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Leu Cys Ser Gln
        115                 120                 125
Thr  *
129
```

```
<210> 1102
<211> 170
<212> PRT
<213> Homo sapiens
```

```
<400> 1102
Met Gln Phe Val Leu Leu Arg Thr Leu Ala Tyr Ile Pro Thr Pro Ile
1               5                   10                  15
Tyr Phe Gly Ala Val Ile Asp Thr Thr Cys Met Leu Trp Gln Gln Glu
            20                  25                  30
Cys Gly Val Gln Gly Ser Cys Trp Glu Tyr Asn Val Thr Ser Phe Arg
            35                  40                  45
Phe Val Tyr Phe Gly Leu Ala Ala Val Leu Lys Tyr Val Gly Cys Ile
        50                  55                  60
Phe Ile Leu Leu Ala Trp Tyr Ser Ile Lys Asp Thr Glu Asp Glu Gln
65                  70                  75                  80
Pro Arg Leu Arg Gln Lys Lys Ile Cys Leu Ser Thr Leu Ser Asp Thr
                85                  90                  95
Met Thr Gln Pro Asp Ser Ala Gly Val Val Ser Cys Pro Leu Phe Thr
            100                 105                 110
Pro Asp Gly Glu Ile His Lys Lys Thr Gly Leu Arg Lys Arg Asp Pro
        115                 120                 125
Gly Gly Thr Thr Glu Pro Thr Pro Gly Pro Leu Arg Lys Arg Pro Leu
        130                 135                 140
Cys Thr Leu Glu Ala Pro Arg Leu Pro Asn Lys Ala Pro Phe Thr Leu
145                 150                 155                 160
Glu Leu Ala Leu Leu Arg Val Arg Leu  *
                165                 169
```

```
<210> 1103
<211> 62
<212> PRT
<213> Homo sapiens
```

```
<400> 1103
Met Leu Ile Ile Phe Asn Ala Val Trp Val Arg Cys Leu Lys Pro Lys
1               5                   10                  15
Ile Pro Ala Arg Pro Thr Thr Asn Asp Thr Met Ile Ser Lys Thr Lys
            20                  25                  30
Gln His Thr Gln Tyr Thr Ser Tyr Ala Pro Ser Trp Pro Trp Leu Gly
            35                  40                  45
Pro Ala Ala Cys Gln His Gly Pro Leu Ile Ser His Thr Pro
        50                  55                  60  62
```

```
<210> 1104
<211> 83
```

638

<212> PRT
<213> Homo sapiens

<400> 1104
Met Lys Gln Leu Ser Pro Leu Pro Leu Pro Trp Val Leu Cys Phe Leu
1   5   10   15
Trp Lys Pro Ser Lys Leu Ser Val Leu Ser Phe Ala Ser Pro Pro Ser
                20   25   30
Thr Lys Pro Ser Gln Gln Ala Gly Leu Val Cys Ser Leu Ile Arg Val
            35   40   45
Ser Thr Ser Ser Thr Pro Ala Cys Thr Phe Tyr Leu Pro Val Asn Ala
        50   55   60
Lys Cys Arg Ser Cys Pro Leu Asn Asn Pro Pro Trp Glu Val Pro Trp
65   70   75   80
Ile Asn *
    82

<210> 1105
<211> 124
<212> PRT
<213> Homo sapiens

<400> 1105
Met Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr His Tyr Trp
1   5   10   15
Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Leu Phe Tyr Val
                20   25   30
Val Phe Ser Leu Leu Trp Gly Gly Val Ile Trp Pro Phe Leu Asn Tyr
            35   40   45
Gln Arg Met Tyr Tyr Val Phe Ile Gln Met Leu Ser Ser Gly Pro Ala
    50   55   60
Trp Leu Ala Ile Val Leu Leu Val Thr Ile Ser Leu Leu Pro Asp Val
65   70   75   80
Leu Lys Lys Val Leu Cys Arg Gln Leu Trp Pro Thr Ala Thr Glu Arg
                85   90   95
Val Gln Thr Lys Ser Gln Cys Leu Ser Val Glu Gln Ser Thr Ile Phe
                100   105   110
Met Leu Ser Gln Thr Ser Ser Ser Leu Ser Phe *
        115   120   123

<210> 1106
<211> 248
<212> PRT
<213> Homo sapiens

<400> 1106
Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu
1   5   10   15
Val Gln Gln Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu
                20   25   30
Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser
            35   40   45

639

```
Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile
    50              55              60
Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly
65              70              75              80
His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu
            85              90              95
Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg
            100             105             110
Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp
            115             120             125
Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp Pro Gly Tyr Tyr
    130             135             140
Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser His Pro Ala
145             150             155             160
Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
            165             170             175
Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
            180             185             190
Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
            195             200             205
Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
    210             215             220
Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
225             230             235             240
Gly Ala Asn Gly Ala Gln Pro    *
                245     247
```

```
<210> 1107
<211> 121
<212> PRT
<213> Homo sapiens
```

```
<400> 1107
Met Met Leu Ala Phe Thr Met Trp Asn Pro Trp Ile Ala Met Cys Leu
1               5               10              15
Leu Gly Leu Ser Tyr Ser Leu Leu Ala Cys Ala Leu Trp Pro Met Val
            20              25              30
Ala Phe Val Val Pro Glu His Gln Leu Gly Thr Ala Tyr Gly Phe Met
        35              40              45
Gln Ser Ile Gln Asn Leu Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly
    50              55              60
Met Ile Leu Asp Ser Arg Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile
65              70              75              80
Ala Cys Val Ser Leu Ser Leu Leu Ser Val Val Leu Leu Tyr Leu Val
            85              90              95
Asn Arg Ala Gln Gly Gly Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu
            100             105             110
Glu Ile Lys Phe Ser His Thr Glu    *
        115             120
```

```
<210> 1108
<211> 53
<212> PRT
<213> Homo sapiens
```

```
<400> 1108
Met Phe Lys Asn Thr Ser Gly Tyr Thr Glu Arg Val Ala Val Trp Leu
1               5                   10                  15
Gly Val Glu Ile Phe Cys Leu Leu Met Met Ser Ser Val Leu Val Pro
            20                  25                  30
Leu Phe Tyr Phe Leu Met Leu Phe Gly Asn Phe Leu Gln Asn Leu Ser
        35                  40                  45
Leu Gly Ser Arg  *
    50      52
```

```
<210> 1109
<211> 259
<212> PRT
<213> Homo sapiens
```

```
<400> 1109
Met His Val Val Ile Val Leu Lys Ala Leu Val Ala Val Gln Ile Leu
1               5                   10                  15
Leu Ser Ile Lys Glu Tyr Thr Leu Glu Arg Asn His Met His Val Ile
            20                  25                  30
Ser Val Ile Lys Val Leu Val Lys Ala Gln Thr Ser Leu Asn Ile Arg
            35                  40                  45
Glu Tyr Thr Leu Val Lys Ser Leu Ile Ile Ala Ile Val Val Arg Lys
    50                  55                  60
Pro Ser Val Arg Val Leu Thr Leu Phe Phe Ile Arg Glu Phe Thr Leu
65                  70                  75                  80
Glu Lys Asn Tyr Tyr Leu Cys Thr Gln Cys Ser Lys Ser Phe Ser Gln
                85                  90                  95
Ile Ser Asp Leu Ile Lys His Gln Arg Ile His Thr Gly Glu Lys Pro
            100                 105                 110
Tyr Lys Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln Cys Ser Ala Leu
        115                 120                 125
Thr Leu His Gln Arg Ile His Thr Gly Lys Lys Pro Asn Pro Cys Asp
    130                 135                 140
Glu Cys Gly Lys Ser Phe Ser Arg Arg Ser Asp Leu Ile Asn His Gln
145                 150                 155                 160
Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Lys
                165                 170                 175
Ala Phe Ser Thr Cys Thr Asp Leu Ile Glu His Gln Lys Thr His Ala
            180                 185                 190
Glu Glu Lys Pro Tyr Gln Cys Val Gln Cys Ser Arg Ser Cys Ser Gln
        195                 200                 205
Leu Ser Glu Leu Thr Ile His Glu Glu Val His Cys Gly Glu Asp Ser
    210                 215                 220
Gln Asn Val Met Asn Val Arg Lys Pro Leu Val Cys Thr Pro Thr Leu
225                 230                 235                 240
Phe Ser Thr Arg Asp Thr Val Pro Glu Lys Asn Leu Met Asn Ala Val
                245                 250                 255
Asp Tyr  *
258
```

```
<210> 1110
```

641

<211> 47
<212> PRT
<213> Homo sapiens

<400> 1110
Met Thr Cys Ser Leu Leu Ser Leu Leu Asp Ala Val Cys Ser Ser Phe
1   5   10   15
Val Gln Ala Phe Cys Ser Arg Asp Pro Glu Arg Trp Pro Ala Ile Ser
                20   25   30
Pro His Ser Leu Ser Gly Ala Phe Tyr Phe Leu Asn Val Cys *
            35   40   45 46

<210> 1111
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1111
Met Ser Leu Arg Ala Pro Ser Val Arg Ile Phe Val Tyr Leu Leu Phe
1   5   10   15
Arg Leu His Thr Gln Arg Gly Leu Leu Ala Gly Arg Arg Gln Trp Gly
                20   25   30
Pro Cys Pro Leu Ser Phe Ser His Phe Leu His Leu Ser Val Leu Ser
            35   40   45
Cys Ser Thr Gln Ile Tyr Thr Glu Gly Ser Trp Pro Gly Trp Ala Ser
        50   55   60
Leu Gly Ala Pro Ser Val His Trp Ala Arg Phe Pro Cys Trp Leu Gln
65   70   75   80
Ala Met Gly Ser Phe Ser Pro Leu Cys Pro Ser Cys *
                85   90   92

<210> 1112
<211> 71
<212> PRT
<213> Homo sapiens

<400> 1112
Met Met Pro Thr Asn Leu Ala His Leu Val Phe Trp Gln Ala Leu Leu
1   5   10   15
Ala Ser Gly Arg Phe Ser Leu Met Glu His Tyr Pro Pro Asn Val Gln
                20   25   30
Ser Asn Arg Gly Ile Thr His Tyr Met Leu Pro Arg Gly Tyr Ile Leu
            35   40   45
Gly Leu Leu Tyr Ser Ser Ala Gly Asn Thr Gly Thr Ser Arg Pro Arg
        50   55   60
Arg Thr His Tyr Gly Thr *
65   70

<210> 1113
<211> 47

```
    <212> PRT
    <213> Homo sapiens


    <400> 1113
Met Tyr Leu Val Lys Gly Leu Leu Ile Gly Leu His Ser Ile Leu Leu
 1               5                  10                  15
Cys Leu Arg Glu Gln Gly Gly Leu Arg Arg Val Glu Arg Asp Glu Gly
            20                  25                  30
Thr Ala Ser Trp Tyr Ser Ser Gln Asn Thr Tyr Asn Ile Tyr  *
        35                  40                  45  46




    <210> 1114
    <211> 55
    <212> PRT
    <213> Homo sapiens


    <400> 1114
Met Thr Val Leu Ser Phe Gln Tyr Glu Tyr Leu Ile Phe Leu Leu Thr
 1               5                  10                  15
Ser Leu Thr Thr Ile Tyr Asn Thr Thr Leu Ser Arg Ser Gly Asp Gly
            20                  25                  30
Arg Arg Thr Cys Leu Val Phe Asn Leu Arg Glu Lys Val Phe Cys Phe
        35                  40                  45
Ser Thr Leu Gly Ile Ile  *
    50          54




    <210> 1115
    <211> 83
    <212> PRT
    <213> Homo sapiens


    <400> 1115
Met Asn Val Ile Cys Leu Thr Leu Cys Leu Val Ser Ser Lys Cys Ser
 1               5                  10                  15
Val Gly Gly Thr Ala Ser Phe Val Leu Leu Cys Phe Ser Leu Pro Val
            20                  25                  30
Ser Ser Arg Arg Arg Ala Phe Gln Glu Ser Gln Gly Trp Thr Glu Pro
        35                  40                  45
Arg Gly Gly Pro Ser Gly Leu Pro His Thr Glu Pro Gly Phe Met Ala
    50                  55                  60
Ser Ala Ala Thr Arg Gly Leu Ser Gly Cys Gly Ser Gln Ala Ala Val
 65                  70                  75                  80
Leu Thr  *
    82




    <210> 1116
    <211> 145
    <212> PRT
    <213> Homo sapiens
```

<400> 1116
Met Val Leu Leu Val Val Gly Asn Leu Val Asn Trp Ser Phe Ala Leu
1   5   10   15
Phe Gly Leu Ile Tyr Arg Pro Arg Asp Phe Ala Ser Tyr Met Leu Gly
            20   25   30
Ile Phe Ile Cys Asn Leu Leu Leu Tyr Leu Ala Phe Tyr Ile Ile Met
        35   40   45
Lys Leu Arg Ser Ser Glu Lys Val Leu Pro Val Pro Leu Phe Cys Ile
    50   55   60
Val Ala Thr Ala Val Met Trp Ala Ala Ala Leu Tyr Phe Phe Phe Gln
65   70   75   80
Asn Leu Ser Ser Trp Glu Gly Thr Pro Ala Glu Ser Arg Glu Lys Asn
            85   90   95
Arg Glu Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
            100   105   110
Phe Leu Ser Ala Thr Ala Leu Phe Phe Ser Phe Leu Asp Leu Leu Thr
    115   120   125
Leu Asp Asp Asp Leu Asp Val Val Arg Arg Asp Gln Ile Pro Val Phe
    130   135   140   144
*

<210> 1117
<211> 139
<212> PRT
<213> Homo sapiens

<400> 1117
Met Gly Asp Phe Ala Gly Val Asp Phe Val Phe Leu Val Val Cys Phe
1   5   ۱10   15
Ala Gln Arg Gln Gly Ala Ala Glu Ala Val Gly Ala Val Leu Ala Val
            20   25   30
Leu Leu Cys Asp Thr Leu Leu Gly Val Thr Arg Leu Glu Gly Val Ile
        35   40   45
His Leu Pro Leu Tyr Phe Gly Leu Ser Gly Ile Glu Val Ile Gln Gln
    50   55   60
Ala His Asn Arg Gly Ser Ser Arg Phe Gln Leu Leu Ile Arg Trp Arg
65   70   75   80
Glu Asp Glu Asp Arg Trp Cys Ser His Ser Ser Phe Asp Val His Leu
            85   90   95
Gly Pro Leu Ala Glu Arg Pro His Val Ser Thr Gln Leu Leu Thr Val
            100   105   110
Ile Ser Cys Lys Ile Phe Arg Leu Gln Ala Thr Asp Cys Glu Ser Lys
    115   120   125
Phe Cys Pro Arg Ser Ser Ala Ala Glu Pro *
    130   135   138

<210> 1118
<211> 194
<212> PRT
<213> Homo sapiens

<400> 1118

```
Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala
1               5                   10                  15
Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg
            20                  25                  30
Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp
        35                  40                  45
Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro
    50                  55                  60
His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln
65                  70                  75                  80
Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys
                85                  90                  95
Ala Glu Gly Thr Val Glu Leu Lys Arg Pro Gly Gln Ser His Ala Ala
            100                 105                 110
Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr
        115                 120                 125
Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro
    130                 135                 140
His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg
145                 150                 155                 160
Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His
                165                 170                 175
Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro
            180                 185                 190
Asp *
193
```

<210> 1119
<211> 118
<212> PRT
<213> Homo sapiens

<400> 1119

```
Met Leu Val Leu Leu Pro Arg Ser Lys Ala Met Pro Leu Leu Ser Val
1               5                   10                  15
Asn Val Thr Leu Ala Phe Phe Pro Arg Asn Lys Glu Ile Val Lys Tyr
            20                  25                  30
Leu Leu Asn Gln Gly Ala Asp Val Thr Leu Arg Ala Lys Asn Gly Tyr
        35                  40                  45
Thr Ala Phe Asp Leu Val Met Leu Leu Asn Asp Pro Asp Ile Phe Gly
    50                  55                  60
Gly Glu Leu Ile Gly Phe Leu Ser Val Val Thr Glu Leu Val Arg Leu
65                  70                  75                  80
Leu Ala Ser Val Phe Met Gln Val Asn Lys Asp Ile Gly Arg Arg Ser
                85                  90                  95
His Gln Leu Pro Leu Pro His Ser Lys Val Pro Thr Ala Leu Glu His
            100                 105                 110
Pro Ser Ala Ala Arg *
        115         117
```

<210> 1120
<211> 842
<212> PRT

<213> Homo sapiens

<400> 1120

Met	Leu	Trp	Gly	Ser	Gly	Lys	Cys	Lys	Ala	Leu	Thr	Lys	Phe	Lys	Phe
1				5					10					15	

Val Phe Phe Leu Arg Leu Ser Arg Ala Gln Gly Gly Leu Phe Glu Thr
            20   25   30

Leu Cys Asp Gln Leu Leu Asp Ile Pro Gly Thr Ile Arg Lys Gln Thr
        35   40   45

Phe Met Ala Met Leu Leu Lys Leu Arg Gln Arg Val Leu Phe Leu Leu
    50   55   60

Asp Gly Tyr Asn Glu Phe Lys Pro Gln Asn Cys Pro Glu Ile Glu Ala
65   70   75   80

Leu Ile Lys Glu Asn His Arg Phe Lys Asn Met Val Ile Val Thr Thr
            85   90   95

Thr Thr Glu Cys Leu Arg His Ile Arg Gln Phe Gly Ala Leu Thr Ala
            100   105   110

Glu Val Gly Asp Met Thr Glu Asp Ser Ala Gln Ala Leu Ile Arg Glu
        115   120   125

Val Leu Ile Lys Glu Leu Ala Glu Gly Leu Leu Leu Gln Ile Gln Lys
    130   135   140

Ser Arg Cys Leu Arg Asn Leu Met Lys Thr Pro Leu Phe Val Val Ile
145   150   155   160

Thr Cys Ala Ile Gln Met Gly Glu Ser Glu Phe His Ser His Thr Gln
            165   170   175

Thr Thr Leu Phe His Thr Phe Tyr Asp Leu Leu Ile Gln Lys Asn Lys
            180   185   190

His Lys His Lys Gly Val Ala Ala Ser Asp Phe Ile Arg Ser Leu Asp
        195   200   205

His Cys Gly Tyr Leu Ala Leu Glu Gly Val Phe Ser His Lys Phe Asp
    210   215   220

Phe Glu Leu Gln Asp Val Ser Ser Val Asn Glu Asp Val Leu Leu Thr
225   230   235   240

Thr Gly Leu Leu Cys Lys Tyr Thr Ala Gln Arg Phe Lys Pro Lys Tyr
            245   250   255

Lys Phe Phe His Lys Ser Phe Gln Glu Tyr Thr Ala Gly Arg Arg Leu
            260   265   270

Ser Ser Leu Leu Thr Ser His Glu Pro Glu Glu Val Thr Lys Gly Asn
        275   280   285

Gly Tyr Leu Gln Lys Met Val Ser Ile Ser Asp Ile Thr Ser Thr Tyr
    290   295   300

Ser Ser Leu Leu Arg Tyr Thr Cys Gly Ser Ser Val Glu Ala Thr Arg
305   310   315   320

Ala Val Met Lys His Leu Ala Ala Val Tyr Gln His Gly Cys Leu Leu
            325   330   335

Gly Leu Ser Ile Ala Lys Arg Pro Leu Trp Arg Gln Glu Ser Leu Gln
            340   345   350

Ser Val Lys Asn Thr Thr Glu Gln Glu Ile Leu Lys Ala Ile Asn Ile
        355   360   365

Asn Ser Phe Val Glu Cys Gly Ile His Leu Tyr Gln Glu Ser Thr Ser
    370   375   380

Lys Ser Ala Leu Ser Gln Glu Phe Glu Ala Phe Phe Gln Gly Lys Ser
385   390   395   400

Leu Tyr Ile Asn Ser Gly Asn Ile Pro Asp Tyr Leu Phe Asp Phe Phe
            405   410   415

Glu His Leu Pro Asn Cys Ala Ser Ala Leu Asp Phe Ile Lys Leu Gly
        420   425   430

Phe Tyr Gly Gly Ala Met Ala Ser Trp Glu Lys Ala Ala Glu Asp Thr

```
              435                    440                    445
Gly Gly Ile His Met Glu Glu Ala Pro Glu Thr Tyr Ile Pro Ser Arg
        450                    455                    460
Ala Val Ser Leu Phe Phe Asn Trp Lys Gln Glu Phe Arg Thr Leu Glu
465                    470                    475                    480
Val Thr Leu Arg Asp Phe Ser Lys Leu Asn Lys Gln Asp Ile Arg Tyr
                485                    490                    495
Leu Gly Lys Ile Phe Ser Ser Ala Thr Ser Leu Arg Leu Gln Ile Lys
                500                    505                    510
Arg Cys Ala Gly Val Ala Gly Ser Leu Ser Leu Val Leu Ser Thr Cys
        515                    520                    525
Lys Asn Ile Tyr Ser Leu Met Val Glu Ala Ser Pro Leu Thr Ile Glu
        530                    535                    540
Asp Glu Arg His Ile Thr Ser Val Thr Asn Leu Lys Thr Leu Ser Ile
545                    550                    555                    560
His Asp Leu Gln Asn Gln Arg Leu Pro Gly Gly Leu Thr Asp Ser Leu
                565                    570                    575
Gly Asn Leu Lys Asn Leu Thr Lys Leu Ile Met Asp Asn Ile Lys Met
                580                    585                    590
Asn Glu Glu Asp Ala Ile Lys Leu Ala Glu Gly Leu Lys Asn Leu Lys
        595                    600                    605
Lys Met Cys Leu Phe His Leu Thr His Leu Ser Asp Ile Gly Glu Gly
        610                    615                    620
Met Asp Tyr Ile Val Lys Ser Leu Ser Ser Glu Pro Cys Asp Leu Glu
625                    630                    635                    640
Glu Ile Gln Leu Val Ser Cys Cys Leu Ser Ala Asn Ala Val Lys Ile
                645                    650                    655
Leu Ala Gln Asn Leu His Asn Leu Val Lys Leu Ser Ile Leu Asp Leu
            660                    665                    670
Ser Glu Asn Tyr Leu Glu Lys Asp Gly Asn Glu Ala Leu His Glu Leu
        675                    680                    685
Ile Asp Arg Met Asn Val Leu Glu Gln Leu Thr Ala Leu Met Leu Pro
        690                    695                    700
Trp Gly Cys Asp Val Gln Gly Ser Leu Ser Ser Leu Leu Lys His Leu
705                    710                    715                    720
Glu Glu Val Pro Gln Leu Val Lys Leu Gly Leu Lys Asn Trp Arg Leu
                725                    730                    735
Thr Asp Thr Glu Ile Arg Ile Leu Gly Ala Phe Phe Gly Lys Asn Pro
            740                    745                    750
Leu Lys Asn Phe Gln Gln Leu Asn Leu Ala Gly Asn Arg Val Ser Ser
        755                    760                    765
Asp Gly Trp Leu Ala Phe Met Gly Val Phe Glu Asn Leu Lys Gln Leu
770                    775                    780
Val Phe Phe Asp Phe Ser Thr Lys Glu Phe Leu Pro Asp Pro Ala Leu
785                    790                    795                    800
Val Arg Lys Leu Ser Gln Val Leu Ser Lys Leu Thr Phe Leu Gln Glu
                805                    810                    815
Ala Arg Leu Val Gly Trp Gln Phe Asp Asp Asp Asp Leu Ser Val Ile
        820                    825                    830
Thr Gly Ala Phe Lys Leu Val Thr Ala  *
        835                    840 841
```

<210> 1121
<211> 90
<212> PRT
<213> Homo sapiens

```
<400> 1121
Met Gly Leu Phe Phe Phe Phe Ser Gly Val Gly Ser Phe Val Gly Ser
1               5                   10                  15
Gly Leu Leu Ala Leu Val Ser Ile Lys Ala Ile Gly Trp Met Ser Ser
            20                  25                  30
His Thr Asp Phe Gly Asn Ile Asn Gly Cys Tyr Leu Asn Tyr Tyr Phe
            35                  40                  45
Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr Leu Leu Leu Phe Leu Ile
        50                  55                  60
Ile Ser Val Lys Tyr Asp His His Arg Asp His Gln Arg Ser Arg Ala
65                  70                  75                  80
Asn Gly Val Pro Thr Ser Arg Arg Ala *
                85              89
```

```
<210> 1122
<211> 129
<212> PRT
<213> Homo sapiens
```

```
<400> 1122
Met Phe Leu Leu Phe Trp Phe Ile Leu Ser Glu Gly Cys Pro Leu Leu
1               5                   10                  15
Glu Gln Leu Asn Ile Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile
            20                  25                  30
Gln Ala Leu Val Arg Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys
            35                  40                  45
Gly Cys Thr Gln Leu Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His
        50                  55                  60
Cys Pro Glu Leu Val Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr
65                  70                  75                  80
Asp Glu Gly Leu Ile Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser
                85                  90                  95
Leu Cys Ala Ser Gly Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala
            100                 105                 110
Leu Ser Gln Asn Cys Pro Arg Leu Ile Ile Leu Glu Val Ala Arg Cys
            115                 120                 125
Ser
129
```

```
<210> 1123
<211> 243
<212> PRT
<213> Homo sapiens
```

```
<400> 1123
Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu Leu
1               5                   10                  15
Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu
            20                  25                  30
Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu
            35                  40                  45
Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala
```

```
              50                  55                  60
Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
65                  70                  75                  80
Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
                85                  90                  95
Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
            100                 105                 110
Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
        115                 120                 125
Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
    130                 135                 140
Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
145                 150                 155                 160
Leu Met Asn Pro Met Val Met Met Met Val Leu Pro Leu Leu Ile Phe
                165                 170                 175
Val Leu Leu Pro Lys Val Val Asn Thr Ser Asp Pro Asp Met Arg Arg
            180                 185                 190
Glu Met Glu Gln Ser Met Asn Met Leu Asn Ser Asn His Glu Leu Pro
        195                 200                 205
Asp Val Ser Glu Phe Met Thr Arg Leu Phe Ser Ser Lys Ser Ser Gly
    210                 215                 220
Lys Ser Ser Ser Gly Ser Ser Lys Thr Gly Lys Ser Gly Ala Gly Lys
225                 230                 235                 240
Arg Arg  *
    242
```


```
        <210> 1124
        <211> 71
        <212> PRT
        <213> Homo sapiens


        <400> 1124
Met Leu Ser Tyr Ala His Ile Thr Leu Ala Val Leu Arg Ile Pro Ser
1                   5                   10                  15
Ala Thr Gly Cys Trp Arg Ala Phe Phe Thr Cys Ala Ser His Leu Thr
                20                  25                  30
Val Val Thr Val Phe Tyr Thr Ala Leu Leu Phe Met Tyr Val Arg Pro
            35                  40                  45
Gln Ala Ile Asp Ser Arg Ser Ser Asn Lys Leu Ile Ser Val Leu Tyr
        50                  55                  60
Thr Val Ile Thr Pro Ser Val
65                  70  71


        <210> 1125
        <211> 48
        <212> PRT
        <213> Homo sapiens


        <400> 1125
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
1                   5                   10                  15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
                20                  25                  30
```

649

```
Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser  *
        35              40              45      47
```

```
        <210> 1126
        <211> 159
        <212> PRT
        <213> Homo sapiens


        <400> 1126
Met Phe Leu Ile Val Leu Pro Leu Glu Ser Met Ala His Gly Leu Phe
 1               5               10              15
His Glu Leu Gly Asn Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile
            20              25              30
Val Ile Pro Thr Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu
        35              40              45
Pro Pro Glu His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu
    50              55              60
Asn Ala Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly
65              70              75              80
Cys Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys
            85              90              95
Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His Asp
            100             105             110
Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly Glu Trp
            115             120             125
Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu Ile Glu Trp
    130             135             140
Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Pro Pro Tyr Tyr Arg
145             150             155             159


        <210> 1127
        <211> 76
        <212> PRT
        <213> Homo sapiens


        <400> 1127
Met Thr Gly Pro Arg Pro Met Ile Leu His Phe Ile Leu Val Ala Ser
 1               5               10              15
Ala Ser Cys Trp Glu Val Leu Phe Cys Cys Trp Gln Pro Cys Pro Leu
            20              25              30
Gly Ile His Ala Thr Ser Asn Ser Pro Ser Gln Leu Gln Gln Leu Ser
            35              40              45
Cys Thr Lys Leu Pro Leu Met Phe Arg Arg Ile Leu Glu Asp Thr Ile
    50              55              60
Phe Ala Ile Leu Tyr His Ile Ala Thr Ile Phe  *
65              70              75


        <210> 1128
        <211> 140
        <212> PRT
        <213> Homo sapiens
```

650

```
       <400> 1128
Met Gly Ala Gly Leu Ala Val Val Pro Leu Met Gly Leu Leu Glu Ser
1               5                   10                  15
Ile Ala Val Ala Lys Ala Phe Ala Ser Gln Asn Asn Tyr Arg Ile Asp
            20                  25                  30
Ala Asn Gln Glu Leu Leu Ala Ile Gly Leu Thr Asn Met Leu Gly Ser
        35                  40                  45
Leu Val Ser Ser Tyr Pro Val Thr Gly Ser Phe Gly Arg Thr Ala Val
        50                  55                  60
Asn Ala Gln Ser Gly Val Cys Thr Pro Ala Glu Gly Leu Val Thr Glu
65                  70                  75                  80
Val Leu Val Leu Leu Ser Leu Asp Tyr Leu Thr Ser Leu Phe Tyr Tyr
                85                  90                  95
Ile Pro Lys Ser Ala Leu Ala Ala Val Ile Ile Met Ala Val Ala Pro
            100                 105                 110
Leu Phe Asp Thr Lys Ile Phe Arg Thr Leu Trp Arg Val Lys Arg Leu
        115                 120                 125
Asp Leu Leu Ser Leu Ser Val Thr Phe Leu Leu Cys
    130                 135                 140


       <210> 1129
       <211> 116
       <212> PRT
       <213> Homo sapiens


       <400> 1129
Met Ala Glu Ala Phe Pro Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly
1               5                   10                  15
Val Phe Leu Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ser Ser
            20                  25                  30
Leu Gln Ala Thr Thr Ala His Gln Ile Gly Val Ser Asp Val Leu Leu
        35                  40                  45
Val Ala Ala Asn Thr Ser Gly Val Thr Gly Lys Met Ile Ser Pro
    50                  55                  60
Gln Ser Ile Ala Val Ala Cys Ala Ala Thr Gly Leu Val Gly Lys Glu
65                  70                  75                  80
Ser Asp Leu Phe Arg Phe Thr Leu Lys His Ser Leu Phe Phe Ala Thr
                85                  90                  95
Ile Val Gly Leu Ile Thr Leu Ala Gln Ala Tyr Trp Phe Thr Gly Met
            100                 105                 110
Leu Val His  *
        115


       <210> 1130
       <211> 81
       <212> PRT
       <213> Homo sapiens


       <400> 1130
Met Asn Lys Leu Leu Val Ala Ala Thr Ala Ile Leu Phe Ser Leu Gly
1               5                   10                  15
```

651

```
Cys His Glu Lys Cys Lys Ile Phe Phe Leu Lys Ser Ile Ser Ser Pro
            20              25                  30
Gln Ser Leu Phe Leu Ala Asp Leu Cys Ala Ser Glu Pro Tyr Leu Leu
        35              40                  45
Phe Leu Asn Ala Val Leu Ser Ala Cys Asn Thr Ile Ser Phe Ile Ser
    50              55                  60
Val Pro Glu Ser Ser Gly Phe Ala Pro Ser Pro Pro Ala Ile Leu Leu
65                  70                  75                  80
Leu
81
```

```
        <210> 1131
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1131
Met Cys Cys Trp Ile Trp Phe Ala Ser Ile Leu Leu Arg Ile Phe Ala
1               5                   10                  15
Leu Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Val Val
            20              25                  30
Ser Leu Pro Gly Phe Gly Ile Arg Met Met Leu Ala Ser *
        35              40                  45
```

```
        <210> 1132
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1132
Met Ser Gln Glu Pro Gly Arg Arg His Ser Lys Leu Thr Leu Thr Ala
1               5                   10                  15
Ser Arg Met Ala Pro Cys Leu Trp Val Trp Thr Ser Leu Cys Gln Ala
            20              25                  30
Trp Ser Met Ser Met Gly Ser Leu Ser Met Gln Thr Thr *
        35              40                  45
```

```
        <210> 1133
        <211> 87
        <212> PRT
        <213> Homo sapiens


        <400> 1133
Met His Ser His Gly Val Ser Tyr Trp Thr Val Arg Thr Val Ile Trp
1               5                   10                  15
Pro Ile Ser Ser Leu Val Ser Lys Ile Thr Thr Trp Glu Phe Asn Glu
            20              25                  30
Val Thr Ser Met Ser Glu His Leu Lys Ser Cys Pro Phe Asn Ile Val
        35              40                  45
Glu His Lys Ser Asp Pro Ile Leu Leu Thr Ser Met Cys His Pro Arg
```

```
        50                55                60
Glu Gln Ala Arg Glu Ser Leu Leu Ser Thr Phe Arg Ile Arg Pro Arg
65                70                75                80
Gly Arg Tyr Val Ser Tyr  *
                85  86
```

```
    <210> 1134
    <211> 57
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1134
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
1                5                10                15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
            20                25                30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
        35                40                45
Ser Arg His Leu Leu Arg Glu Leu  *
    50                55  56
```

```
    <210> 1135
    <211> 57
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1135
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
1                5                10                15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
            20                25                30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
        35                40                45
Ser Arg His Leu Leu Arg Glu Leu  *
    50                55  56
```

```
    <210> 1136
    <211> 105
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1136
Met Pro Phe Ala Gln Thr Gly Leu Gln Leu Leu Leu Arg Leu Cys Arg
1                5                10                15
Val Leu His Val Leu Arg Leu Leu Gly Met Leu Arg Glu Gln Met His
            20                25                30
Leu Leu Arg Glu Lys Leu Leu Asp Leu Leu Pro Pro Glu Leu Cys Gln
        35                40                45
Arg Val Pro Arg Ala Ala Thr Ala Lys Gly His Lys Arg Arg Ala Ala
    50                55                60
```

653

```
Ala Val Pro Asp Asp Gly Thr Asp Leu Leu Pro Gln Gly Met Arg Thr
65              70              75              80
Ala Cys Thr Thr Arg Arg Ile Phe Lys Tyr Asn Thr Glu Pro Phe Ala
            85              90              95
Ala Phe Leu Phe Ile Leu Asn Met  *
            100             104
```

```
<210> 1137
<211> 52
<212> PRT
<213> Homo sapiens
```

```
<400> 1137
Met Val Gly Phe Tyr Leu Gln Ser Val Leu Tyr Phe Tyr Phe Ser Gln
1               5               10              15
Leu Ile Tyr Leu Gly Asp His Ala Lys Ser Val Asn Ile Val Thr Ser
            20              25              30
Phe Ile Leu Thr Ala Ala Tyr Val Asn Asn Ser Lys Met His His Thr
            35              40              45
Val Phe Asn  *
50  51
```

```
<210> 1138
<211> 187
<212> PRT
<213> Homo sapiens
```

```
<400> 1138
Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
1               5               10              15
Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
            20              25              30
Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
            35              40              45
His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
    50              55              60
Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
65              70              75              80
His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
            85              90              95
Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
            100             105             110
Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
    115             120             125
Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
130             135             140
Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
145             150             155             160
Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn
            165             170             175
Val Arg Gly Lys Val Ala Val Asp Leu Phe  *
            180             185 186
```

```
<210> 1139
<211> 109
<212> PRT
<213> Homo sapiens


<400> 1139
Met Trp Gln Lys Ser Leu Leu Ile Leu Ser Phe Arg Val Ser Phe Pro
1               5                   10                  15
Leu Phe Leu Thr Tyr Asn Tyr Lys Leu Leu Ser Ile Arg Arg Thr Arg
            20                  25                  30
Pro Leu Ser Ser Phe Phe Ser Lys Leu Leu Gln Ile Ala Val Asn Ser
        35                  40                  45
Ile Asn Ser Leu Phe Ser Ala Gly Lys Val Ala Phe Ser Lys His Val
    50                  55                  60
Cys Leu Leu Pro Gly Gly Leu Lys Ser Met Ile Tyr Cys Ser Ser Met
65                  70                  75                  80
Cys Leu Lys Gln Leu Leu Arg Ser Phe Lys Gln Glu Ser Ser Lys Gly
                85                  90                  95
Ser Val Leu Ile Met Val Leu Val Phe Leu Gln Ile   *
            100                 105             108
```

```
<210> 1140
<211> 83
<212> PRT
<213> Homo sapiens


<400> 1140
Met Pro Ala Pro Thr Ala Trp Leu Leu Pro Ala Val Ser Thr Cys Ser
1               5                   10                  15
Asn Leu Arg Ala Lys Ala Gly Val Ile Leu Gly Thr Ile Thr Thr Arg
            20                  25                  30
Pro Tyr Val His Thr Trp Gly Ser Ala Asp Met Ala Thr Pro Tyr His
        35                  40                  45
Leu Gly Pro Phe Trp Thr Leu Gly Thr Asp Lys His Arg Arg Glu Ala
    50                  55                  60
Asn Arg Gly Gln Arg Ala Ile Trp Gly Trp Pro Thr Gly Pro Pro Trp
65                  70                  75                  80
His Leu   *
    82
```

```
<210> 1141
<211> 58
<212> PRT
<213> Homo sapiens


<400> 1141
Met Tyr Gln Trp Gly Ser Ser Ile Ile Leu Ile Leu Trp Pro Leu Ser
1               5                   10                  15
Met Asn Ile Gly Cys Tyr Ser Ile Tyr Leu Lys Met Val Met Leu Leu
            20                  25                  30
```

```
Ser Ser Lys Phe Ser Trp Lys Ser Phe Ser Lys Leu Gln Phe Leu Leu
        35              40              45
Leu Leu Lys Phe Arg Tyr Met Cys Ile *
    50              55      57
```

```
        <210> 1142
        <211> 46
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1142
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
1               5               10              15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser
            20              25              30
Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
      35              40              45
```

```
        <210> 1143
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1143
Met Leu Trp Ala Leu Ile Arg Ala Ala Leu Ala Gln Leu His Thr Glu
1               5               10              15
Glu Pro Lys Lys Arg Lys Glu Glu Lys Met Ser Pro Ala Leu Ser Pro
            20              25              30
Pro Leu Pro Ser Val Pro Ile Ser Leu Gly Gln Asn Asn Arg Lys Arg
      35              40              45
Arg Ser His Leu Ser Leu Leu Leu Gln *
    50              55      57
```

```
        <210> 1144
        <211> 147
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1144
Met Ala Tyr Thr Met Ile Pro Val Leu His Phe Phe Cys Cys Glu Thr
1               5               10              15
Ser Ser Leu Val Arg Thr Lys Val Val Trp Glu Ala Ile Asn Met Val
            20              25              30
Phe Ala Lys Ser Met Asn Gly Gly Pro Asp Arg Cys Ile Ala Val Arg
      35              40              45
Gln Val Lys Phe Leu Phe Arg Lys Val Ser Phe Ser Glu Lys Ile Asp
    50              55              60
His Cys Pro Leu His Asp Gly Asn Ile Leu Leu Pro Gly Pro Trp Glu
65              70              75              80
Met Ala Pro Tyr Trp Gly Leu Asn Ile Ser Leu Cys His Leu Gln Phe
```

```
                          85                   90                   95
Arg His Ser Ile Val Ser Leu Ala Arg Cys Ser Leu Gly Glu Gly Gln
                100                  105                  110
Ser Met Leu Trp Cys Pro Cys Leu Thr Ser Ile Ser Val Asp Met Ala
                115                  120                  125
Thr Leu Tyr Ile Asn Ala Ser Ser Ser Leu Ser Ser Lys Gly Lys Lys
            130                  135                  140
Ala Asp  *
145 146
```

```
        <210> 1145
        <211> 103
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1145
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
 1               5                   10                  15
Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
                20                  25                  30
Pro Gly Lys Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
            35                  40                  45
Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
    50                  55                  60
Val Ile Tyr Glu Asp Ser Arg Arg Pro Ser Gly Ile His Lys Arg Phe
65                  70                  75                  80
Tyr Gly Ser Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Thr
                85                  90                  95
Gln Ala Met Asp Glu Gly  *
            100     102
```

```
        <210> 1146
        <211> 77
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1146
Met Pro Leu Leu His Gly Val Tyr Leu Ala Arg Arg Ser Leu Ile Cys
 1               5                   10                  15
Ile Ser Phe Cys His Leu Cys Val Leu Ser Ile Gly Leu Arg Val Ile
                20                  25                  30
Val Cys Val Val Gly Ile Ser Glu Asp Arg Lys Arg Ser Ala Ser Ala
            35                  40                  45
Pro Thr Leu Gly Ile Val Pro Leu His Ala Ser Leu His Gln His Cys
    50                  55                  60
Ala Pro Asn Gln Ser Asn Pro Cys Ser Trp His Leu  *
65                  70                  75  76
```

```
        <210> 1147
        <211> 118
        <212> PRT
```

<213> Homo sapiens

<400> 1147
Met Asn Pro Ser Ala Ser Leu Val Cys Leu Leu Phe Ala Phe Ser Ser
1   5   10   15
Cys Arg Ile Trp Ser Val Leu Cys Gln Leu Cys Val Pro Ser Pro Trp
            20   25   30
Pro Ser Pro Leu Cys Leu Cys Pro Gln Thr Asp Val Ala Pro Ile Cys
        35   40   45
Ala Val Gln Pro Ser Leu Phe Cys Leu Gly Ser Arg Glu Pro Leu Trp
    50   55   60
Thr Val Leu Val Gly Ser Cys Pro Leu Arg Ala Phe Thr Asn Leu Ser
65   70   75   80
Val Arg Pro Pro Pro Gly His His Ser Ile His Leu Leu Thr Trp Leu
                85   90   95
Ala Ser Ser Ser Ala Ala Ala Thr Thr Ala Ala Ser Thr Ala Ser Gly
                100   105   110
Ala Pro His Ser Val   *
        115   117

<210> 1148
<211> 399
<212> PRT
<213> Homo sapiens

<400> 1148
Met Trp Ala Ala Val Gly Gly Phe Leu Phe Ala Pro Arg Cys Phe Leu
1   5   10   15
Leu Pro Trp Pro Leu Arg Ala Pro Leu Ser Ser Leu Phe Val Leu Pro
            20   25   30
Arg Leu Leu Leu Trp Pro Ile Pro Tyr Pro Val Leu Ala Ser Val Cys
        35   40   45
Pro Cys Val Pro Gly Gly Arg Phe Phe Gly Pro Leu Tyr Pro Arg Asp
    50   55   60
Leu Arg Leu Leu Arg Cys Val Pro Gly Glu Leu Thr Gly Ala Ala Pro
65   70   75   80
Arg Thr Leu Pro Gly Cys Asp Leu Asn Cys Leu Gly Leu Gly Arg Glu
                85   90   95
Ala Ala Val Pro Arg Leu Leu Arg Leu Thr Arg Asp Pro Ala Arg Pro
                100   105   110
Ser Cys Arg Thr Leu Gly Val His Ala Val Pro Arg Arg Ala Phe Gly
        115   120   125
Phe Tyr Ala Val Pro Arg Arg Asp Pro Arg Phe Tyr Ala Val Pro Arg
    130   135   140
Arg Val Pro Arg Leu Tyr Ala Val Pro His Pro Ala Leu Arg Val Tyr
145   150   155   160
Ala Val Pro Arg Arg Thr Phe Arg Val Tyr Ala Val Pro His Pro Ala
                165   170   175
Leu Arg Val Tyr Ala Val Pro Arg Arg Ala Leu Gly Leu Tyr Val Val
                180   185   190
Pro Gln Arg Ala Leu Arg Val Tyr Ala Val Pro Arg Arg Thr Phe Arg
        195   200   205
Val Tyr Ala Val Pro His Pro Ala Leu Arg Leu Tyr Ala Val Ala Arg
    210   215   220
Arg Ala Leu Arg Phe Tyr Val Val Pro Gln Arg Ala Leu Arg Val Tyr

```
      225                    230                    235                    240
Ala Val Pro Arg Leu Pro Gly Arg Ala Thr Phe Arg Asp Leu Arg Pro
                    245                    250                    255
Leu Leu Arg Leu Leu Leu Pro Leu Gly Gly Arg Arg Val Leu Gly Leu
                260                    265                    270
Pro Leu Ser Leu Pro Ala Gly Leu Ala Leu Arg Ala Ala Ser Arg Ala
                275                    280                    285
Arg Pro Leu His Leu Leu Arg Ala Ala Cys Leu Leu Pro Ser Leu Gly
        290                    295                    300
His Leu Gly Thr Leu Arg Gly Ser Leu Leu Gly Leu Ser Leu Ala Val
305                    310                    315                    320
Arg Pro Pro Arg Ala Pro Arg Leu Gly Leu Arg Ala Pro Val Trp Pro
                325                    330                    335
Ala Ala Ser Cys Leu Leu His Ser Gly Gly Ala Pro Arg Arg Leu Leu
                340                    345                    350
Cys Ala Leu Ala Pro Leu Arg Pro Phe Cys Leu Pro Ala Arg Gly Ser
        355                    360                    365
Trp Leu Ser Gly Ser Leu Ser Gln Arg Arg Gly Asp Leu Arg Arg Pro
        370                    375                    380
Leu Gly Thr Arg Gly Asn Pro Leu Arg Leu Arg Gly Leu Gly His
385                    390                    395        399
```

```
      <210> 1149
      <211> 67
      <212> PRT
      <213> Homo sapiens


      <400> 1149
Met Pro Ser Tyr Phe Lys Thr Cys Ser Leu Phe Thr Leu Leu Ser Ser
1                   5                   10                  15
Val Phe Leu Val Cys Ile Trp Ile Phe Lys Thr Asn Ile Lys Ser Ser
                20                  25                  30
Val Ser Glu Ser Pro Pro Asp Ser Gly Leu Gly Gln Val Thr Ala Val
        35                  40                  45
Tyr Gln Val Gln Cys Leu Cys Trp Ala Lys Asp Cys Asn Tyr Pro Ile
    50                  55                  60
Cys Ser *
65  66
```

```
      <210> 1150
      <211> 70
      <212> PRT
      <213> Homo sapiens


      <400> 1150
Met Leu Val Ser Lys Leu Met Leu Gln Ile Val Met Ala Val Pro His
1                   5                   10                  15
Tyr Ile Met Pro Val Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu
                20                  25                  30
Leu Glu Ala Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser
        35                  40                  45
Ser Leu Asp Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met
    50                  55                  60
```

Leu Arg Lys Ala Leu   *
65   69

        <210> 1151
        <211> 48
        <212> PRT
        <213> Homo sapiens

        <400> 1151
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
1   5   10   15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
            20   25   30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg   *
        35   40   45   47

        <210> 1152
        <211> 64
        <212> PRT
        <213> Homo sapiens

        <400> 1152
Met Lys Asp His Leu Glu Phe Pro Phe Leu Asp Leu Leu Asp Leu Thr
1   5   10   15
Asp Ser Leu Gly Leu Leu Gly Phe Gln Gly Leu Leu Ala Leu Leu Ala
            20   25   30
Leu Thr Phe Leu Leu Val Met Arg Tyr Val Asn Gln Ala Leu Gln Ala
        35   40   45
Pro Gln Asp Leu Gln Val Ile Lys Asp Ser Lys Glu Asn Lys Glu   *
    50   55   60   63

        <210> 1153
        <211> 61
        <212> PRT
        <213> Homo sapiens

        <400> 1153
Met Thr Ala Arg Phe Leu Leu Ala Arg Pro Ala Tyr Ser Ser Ala Leu
1   5   10   15
Leu Arg Gly Leu Gly Gly Pro Arg Thr Pro Leu Ile Gln Phe Ser Arg
            20   25   30
Cys Gly Met Met Ser Ile Arg Leu Leu Gly Leu Phe Pro Leu Cys Leu
        35   40   45
Cys Ser Val Leu Trp Phe Pro Gln Gln His Ser Leu   *
    50   55   60

        <210> 1154
        <211> 75

660

<210> PRT
<213> Homo sapiens

<400> 1154
Met Asp Ser Thr Phe Leu Ala Thr Arg Ala Val Arg Gly Gln Leu Tyr
1   5   10   15
Leu Trp Ile Ser Met Leu Thr Ile Ala Thr Gly Lys Leu Cys Ala Arg
                20   25   30
Cys Tyr Pro Glu Asn Gln Asp His Ile Ile Gln Met Leu Pro Cys Ser
            35   40   45
Pro Ala Ser Val Ile Leu His Leu Pro Trp Met Met Lys Phe Phe Leu
        50   55   60
Ala Arg His Leu Ile Lys Trp Leu Glu Asn *
65   70   74

<210> 1155
<211> 68
<212> PRT
<213> Homo sapiens

<400> 1155
Met Met Ala Lys Ser Val Arg Phe Cys Tyr Val Leu Phe Val Glu Glu
1   5   10   15
Ile Arg Phe Ala Val Leu Val Val Gln Arg Leu Ala Lys Ser Asp Leu
                20   25   30
Trp Ala Lys Ser Gly Leu Leu Ser Ile Phe Ile Phe Ile Ser Lys Val
            35   40   45
Leu Leu Lys Gln Thr His Leu Leu Val Cys Arg Met Tyr Ile Ala Ala
        50   55   60
Phe Ala Leu *
65   67

<210> 1156
<211> 60
<212> PRT
<213> Homo sapiens

<400> 1156
Met Ile Tyr Phe Leu Ser Thr Pro Leu Leu Leu Thr Leu Phe Asn Ile
1   5   10   15
Leu Met Thr Phe Phe Phe Val Ala Pro Pro Leu Asn Leu Leu Asn Lys
                20   25   30
Thr His Phe Cys Phe Phe Ser Ser Tyr Ser Leu Lys Asp Phe Arg Cys
            35   40   45
Pro Pro Pro Lys Leu Lys Phe Leu Leu His Pro *
        50   55   59

<210> 1157
<211> 776
<212> PRT

<213> Homo sapiens

<400> 1157
```
Met Leu Phe Ile Val Thr Ala Leu Leu Cys Cys Gly Leu Cys Asn Gly
 1               5                  10                  15
Val Leu Ile Glu Glu Thr Glu Ile Val Met Pro Thr Pro Lys Pro Glu
            20                  25                  30
Leu Trp Ala Glu Thr Asn Phe Pro Leu Ala Pro Trp Lys Asn Leu Thr
        35                  40                  45
Leu Trp Cys Arg Ser Pro Ser Gly Ser Thr Lys Glu Phe Val Leu Leu
    50                  55                  60
Lys Asp Gly Thr Gly Trp Ile Ala Thr Arg Pro Ala Ser Glu Gln Val
 65                  70                  75                  80
Arg Ala Ala Phe Pro Leu Gly Ala Leu Thr Gln Ser His Thr Gly Ser
                85                  90                  95
Tyr His Cys His Ser Trp Glu Glu Met Ala Val Ser Glu Pro Ser Glu
            100                 105                 110
Ala Leu Glu Leu Val Gly Thr Asp Ile Leu Pro Lys Pro Val Ile Ser
        115                 120                 125
Ala Ser Pro Thr Ile Arg Gly Gln Glu Leu Gln Leu Arg Cys Lys Gly
    130                 135                 140
Trp Leu Ala Gly Met Gly Phe Ala Leu Tyr Lys Glu Gly Glu Gln Glu
145                 150                 155                 160
Pro Val Gln Gln Leu Gly Ala Val Gly Arg Glu Ala Phe Phe Thr Ile
                165                 170                 175
Gln Arg Met Glu Asp Lys Asp Glu Gly Asn Tyr Ser Cys Arg Thr His
            180                 185                 190
Thr Glu Lys Arg Pro Phe Lys Trp Ser Glu Pro Ser Glu Pro Leu Glu
            195                 200                 205
Leu Val Ile Lys Glu Met Tyr Pro Lys Pro Phe Phe Lys Thr Trp Ala
    210                 215                 220
Ser Pro Val Val Thr Pro Gly Ala Arg Val Thr Phe Asn Cys Ser Thr
225                 230                 235                 240
Pro His Gln His Met Ser Phe Ile Leu Tyr Lys Asp Gly Ser Glu Ile
                245                 250                 255
Ala Ser Ser Asp Arg Ser Trp Ala Ser Pro Gly Ala Ser Ala Ala His
            260                 265                 270
Phe Leu Ile Ile Ser Val Gly Ile Gly Asp Gly Gly Asn Tyr Ser Cys
        275                 280                 285
Arg Tyr Tyr Asp Phe Ser Ile Trp Ser Glu Pro Ser Asp Pro Val Glu
    290                 295                 300
Leu Val Val Thr Glu Phe Tyr Pro Lys Pro Thr Leu Leu Ala Gln Pro
305                 310                 315                 320
Gly Pro Val Val Phe Pro Gly Lys Ser Val Ile Leu Arg Cys Gln Gly
                325                 330                 335
Thr Phe Gln Gly Met Arg Phe Ala Leu Leu Gln Glu Gly Ala His Val
            340                 345                 350
Pro Leu Gln Phe Arg Ser Val Ser Gly Asn Ser Ala Asp Phe Leu Leu
        355                 360                 365
His Thr Val Gly Ala Glu Asp Ser Gly Asn Tyr Ser Cys Ile Tyr Tyr
    370                 375                 380
Glu Thr Thr Met Ser Asn Arg Gly Ser Tyr Leu Ser Met Pro Leu Met
385                 390                 395                 400
Ile Trp Val Thr Asp Thr Phe Pro Lys Pro Trp Leu Phe Ala Glu Pro
                405                 410                 415
Ser Ser Val Val Pro Met Gly Gln Asn Val Thr Leu Trp Cys Arg Gly
            420                 425                 430
Pro Val His Gly Val Gly Tyr Ile Leu His Lys Glu Gly Glu Ala Thr
```

```
              435                   440                   445
Ser Met Gln Leu Trp Gly Ser Thr Ser Asn Asp Gly Ala Phe Pro Ile
         450                   455                   460
Thr Asn Ile Ser Gly Thr Ser Met Gly Arg Tyr Ser Cys Cys Tyr His
465                   470                   475                   480
Pro Asp Trp Thr Ser Ser Ile Lys Ile Gln Pro Ser Asn Thr Leu Glu
                  485                   490                   495
Leu Leu Val Thr Gly Leu Leu Pro Lys Pro Ser Leu Leu Ala Gln Pro
              500                   505                   510
Gly Pro Met Val Ala Pro Gly Glu Asn Met Thr Leu Gln Cys Gln Gly
         515                   520                   525
Glu Leu Pro Asp Ser Thr Phe Val Leu Leu Lys Glu Gly Ala Gln Glu
         530                   535                   540
Pro Leu Glu Gln Gln Arg Pro Ser Gly Tyr Arg Ala Asp Phe Trp Met
545                   550                   555                   560
Pro Ala Val Arg Gly Glu Asp Ser Gly Ile Tyr Ser Cys Val Tyr Tyr
                  565                   570                   575
Leu Asp Ser Thr Pro Phe Ala Ala Ser Asn His Ser Asp Ser Leu Glu
              580                   585                   590
Ile Trp Val Thr Asp Lys Pro Pro Lys Pro Ser Leu Ser Ala Trp Pro
         595                   600                   605
Ser Thr Met Phe Lys Leu Gly Lys Asp Ile Thr Leu Gln Cys Arg Gly
         610                   615                   620
Pro Leu Pro Gly Val Glu Phe Val Leu Glu His Asp Gly Glu Glu Ala
625                   630                   635                   640
Pro Gln Gln Phe Ser Glu Asp Gly Asp Phe Val Ile Asn Asn Val Glu
                  645                   650                   655
Gly Lys Gly Ile Gly Asn Tyr Ser Cys Ser Tyr Arg Leu Gln Ala Tyr
              660                   665                   670
Pro Asp Ile Trp Ser Glu Pro Ser Asp Pro Leu Glu Leu Val Gly Ala
         675                   680                   685
Ala Gly Pro Val Ala Gln Glu Cys Thr Val Gly Asn Ile Val Arg Ser
690                   695                   700
Ser Leu Ile Val Val Val Val Ala Leu Gly Val Val Leu Ala Ile
705                   710                   715                   720
Glu Trp Lys Lys Trp Pro Arg Leu Arg Thr Arg Gly Ser Glu Thr Asp
                  725                   730                   735
Gly Arg Asp Gln Thr Ile Ala Leu Glu Glu Cys Asn Gln Glu Gly Glu
              740                   745                   750
Pro Gly Thr Pro Ala Asn Ser Pro Ser Ser Thr Ser Gln Arg Ile Ser
         755                   760                   765
Val Glu Leu Pro Val Pro Ile   *
770                   775
```

```
     <210> 1158
     <211> 80
     <212> PRT
     <213> Homo sapiens


     <400> 1158
Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu Ala Phe
 1                   5                   10                  15
Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala Val Leu
              20                   25                   30
Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr Trp His
         35                   40                   45
```

```
Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu Gly Glu
    50                  55                  60
Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp Gly  *
65                  70                  75              79
```

```
        <210> 1159
        <211> 132
        <212> PRT
        <213> Homo sapiens


        <400> 1159
Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1               5                  10                  15
Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
            20                  25                  30
Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
        35                  40                  45
Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
    50                  55                  60
Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
65                  70                  75                  80
Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
            85                  90                  95
Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
            100                 105                 110
Pro Thr Ala Ile Lys Tyr Phe Leu Thr Gln Ala Thr Ala Ser Ile Ile
        115                 120                 125
Leu Leu Ile Ala
    130     132


        <210> 1160
        <211> 167
        <212> PRT
        <213> Homo sapiens


        <400> 1160
Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu
 1               5                  10                  15
Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser
            20                  25                  30
Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp
        35                  40                  45
Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala
    50                  55                  60
Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp
65                  70                  75                  80
Glu Ala Gly Pro Ala Cys Arg Thr Gln Pro Ser Pro Gln Asn Leu Ala
            85                  90                  95
Pro Arg Pro His Pro Ser Ala Ala Gln Leu Ile Glu Asn Ala Ala Leu
            100                 105                 110
Arg Ser Ala Met Ser Gly Glu Arg Leu Phe Pro Glu Gly Gln Glu His
        115                 120                 125
Leu Gly Pro Leu Val Ala Pro Arg Val Pro Met Gly Gly Ala Leu Cys
```

```
        130              135              140
Pro Pro Leu Pro Ser Leu Ser Cys Ala Ile Cys Lys Val Gly Ala Ala
145              150              155              160
Arg Glu Ala Gly Gly Arg  *
                165 166
```

```
    <210> 1161
    <211> 84
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1161
Met Ala Asn Leu Leu Leu Leu Ile Val Pro Ile Leu Ile Ala Met Ala
1               5                10               15
Phe Leu Met Leu Thr Glu Arg Lys Ile Leu Gly Tyr Ile Gln Leu Arg
            20               25               30
Lys Gly Pro Asn Val Val Gly Pro Tyr Gly Leu Leu Gln Pro Phe Ala
        35               40               45
Asp Ala Ile Lys Leu Phe Thr Lys Glu Pro Leu Lys Pro Ala Thr Ser
        50               55               60
Ala Ile Thr Leu Tyr Ile Thr Ala Pro Thr Leu Ala Leu Thr Ile Ala
65               70               75               80
Leu Leu Leu  *
        83
```

```
    <210> 1162
    <211> 80
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1162
Met Lys Ala Trp Cys Phe Ser Asn Lys Phe Trp Leu Ala Val Leu Pro
1               5                10               15
Ile Cys Cys Ala Ser Ala Ala Tyr Leu Gly Gln Val Trp Leu Leu Ile
            20               25               30
Tyr Ala Trp Arg Ala Glu Thr Ser Leu Glu Thr Glu Phe Tyr Thr Ile
        35               40               45
Pro Leu Ser Trp Leu Tyr Tyr Phe Thr Thr Thr Tyr Tyr Leu Met Phe
        50               55               60
Leu Pro Ser Leu Lys Phe Ala Gln Asp Ser Pro Pro Arg Ala Phe  *
65               70               75               79
```

```
    <210> 1163
    <211> 71
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1163
Met Tyr Gly Leu Lys Ile Leu Ser His Leu Trp Val Leu Leu Ile Leu
1               5                10               15
```

```
Ser Leu Leu Leu Phe Leu Arg Lys Ser Phe Lys Phe Tyr Ala Val Ser
            20                  25                  30
Phe Val Cys Phe Ala Phe Val Ala Phe Trp Asn Asn Leu Gln Lys Ile
            35                  40                  45
Ile Ala Gln Ala Asn Val Ile Gln Ser Pro Ser Ile Phe Pro Cys Ser
    50                  55                  60
Ser Ser Thr Phe Lys Leu  *
65                  70
```

```
        <210> 1164
        <211> 56
        <212> PRT
        <213> Homo sapiens


        <400> 1164
Met Glu Thr Ala Val Ile Gly Val Val Val Leu Phe Val Val Thr
1               5               10                  15
Val Ala Ile Thr Cys Val Leu Cys Cys Phe Ser Cys Asp Ser Arg Ala
            20                  25                  30
Gln Asp Pro Gln Gly Gly Pro Gly Arg Ser Phe Thr Val Ala Thr Phe
            35                  40                  45
Arg Gln Glu Ala Ser Leu Phe Thr
    50                  55  56
```

```
        <210> 1165
        <211> 97
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(97)
        <223> Xaa = any amino acid or nothing


        <400> 1165
Met Lys Met Leu Cys Gly Leu Leu Arg Thr Val Gln Gly Val Arg Phe
1               5               10                  15
Pro Gln Leu Thr Arg Ile His Gly Pro Ser Thr Gln Gly His Gln Leu
            20                  25                  30
Leu Leu Leu Trp Val Gly Val Leu Gln Val Gly Xaa Ser Ser Leu Gly
            35                  40                  45
Leu Gln Asn Asp Leu Met Gly Pro Ser Leu Gly Arg Gly Pro Pro Pro
    50                  55                  60
Leu Ala Ala Ser Thr Arg Cys Arg His Val Ala Gln Leu Gly Val Gly
65                  70                  75                  80
Leu Ser Lys Thr Trp Gln Pro Ser Thr His Gly Ile Ala Ser Ala Pro
                85                  90  ·                 95  96
    *
```

```
        <210> 1166
        <211> 48
```

```
<212> PRT
<213> Homo. sapiens


<400> 1166
Met Leu Ile Phe Val Phe Leu Phe Ser Tyr Leu Ile Ala Leu Ala Gly
1               5                   10                  15
Thr Phe Ser Pro Arg Leu Asn Arg Ser Gly Glu Ser Val His Pro Phe
            20                  25                  30
Ala Leu His Pro Val Leu Arg Arg Lys His Pro Val Ile His Leu  *
        35                  40                  45      47




<210> 1167
<211> 274
<212> PRT
<213> Homo sapiens


<400> 1167
Met Glu Ala Pro Leu Ser His Leu Glu Ser Arg Tyr Leu Pro Ala His
1               5                   10                  15
Phe Ser Pro Leu Val Phe Phe Leu Leu Leu Ser Ile Met Met Ala Cys
            20                  25                  30
Cys Leu Val Ala Phe Phe Val Leu Gln Arg Gln Pro Arg Cys Trp Glu
        35                  40                  45
Ala Ser Val Glu Asp Leu Leu Asn Asp Gln Val Thr Leu His Ser Ile
    50                  55                  60
Arg Pro Arg Glu Glu Asn Asp Leu Gly Pro Ala Gly Thr Val Asp Ser
65                  70                  75                  80
Ser Gln Gly Gln Gly Tyr Leu Glu Glu Lys Ala Ala Pro Cys Cys Pro
                85                  90                  95
Ala His Leu Ala Phe Ile Tyr Thr Leu Val Ala Phe Val Asn Ala Leu
            100                 105                 110
Thr Asn Gly Met Leu Pro Ser Val Gln Thr Tyr Ser Cys Leu Ser Tyr
    115                 120                 125
Gly Pro Val Ala Tyr His Leu Ala Ala Thr Leu Ser Ile Val Ala Asn
    130                 135                 140
Pro Leu Ala Ser Leu Val Ser Met Phe Leu Pro Asn Arg Ser Leu Leu
145             150                 155                 160
Phe Leu Gly Val Leu Ser Val Leu Gly Thr Cys Phe Gly Gly Tyr Asn
                165                 170                 175
Met Ala Met Ala Val Met Ser Pro Cys Pro Leu Leu Gln Gly His Trp
                180                 185                 190
Gly Gly Glu Val Leu Ile Val Ser Ile Arg Pro Val Ala Ser Trp Val
            195                 200                 205
Leu Phe Ser Gly Cys Leu Ser Tyr Val Lys Val Met Leu Gly Val Val
    210                 215                 220
Leu Arg Asp Leu Ser Arg Ser Ala Leu Leu Trp Cys Gly Ala Ala Val
225                 230                 235                 240
Gln Leu Gly Ser Leu Leu Gly Ala Leu Leu Met Phe Pro Leu Val Asn
                245                 250                 255
Val Leu Arg Leu Phe Ser Ser Ala Asp Phe Cys Asn Leu His Cys Pro
                260                 265                 270
Ala  *
273
```

```
<210> 1168
<211> 230
<212> PRT
<213> Homo sapiens


<400> 1168
Met Arg Ile Cys Asn Leu Ile Ser Met Met Leu Leu Leu Cys His Trp
 1               5                  10                  15
Asp Gly Cys Leu Gln Phe Leu Val Pro Met Leu Gln Asp Phe Pro Arg
                20                  25                  30
Asn Cys Trp Val Ser Ile Asn Gly Met Val Asn His Ser Trp Ser Glu
            35                  40                  45
Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys Ile
     50      ·              55                  60
Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu Thr
 65                  70                  75                  80
Met Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly
                85                  90                  95
His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr
            100                 105                 110
Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu
     115                 120                 125
Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg Tyr
     130                 135                 140
Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn Gly
145                 150                 155                 160
Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val Ala
                165                 170                 175
Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala Met
                180                 ·   185                 190
Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile Ile
     195                 200                 205
Pro Arg Arg His His Arg Glu Glu Asp Val Leu His Pro Ala Arg Arg
     210                 215                 220
Gly Gln Arg Ala His   *
225                 229
```

```
<210> 1169
<211> 213
<212> PRT
<213> Homo sapiens


<400> 1169
Met Ala His Phe Thr Trp Ala His Leu Arg Val Leu Thr Leu Phe Leu
 1               5                  10                  15
Leu Gln Val Gly Leu Leu Asp Asp Val His Gln Leu Leu Gly Pro Gln
                20                  25                  30
Ala Asp Glu Asp Ser Leu Ser Ile Phe Thr Val Met Pro Ala Leu His
            35                  40                  45
Gln Ser Gln Glu Gln Leu Gly Gly Ile Val Leu Glu Leu Gln His Gln
     50                  55                  ·   60
Ile His Ala Val Leu Ala Gln Gly Ala Asp Val Ile Glu Asp Gln Cys
 65                  70                  ·   75                  80
Gly Asp Asp Val Tyr Ala Ile Gly Leu Val Ser His Asn Ala Ser Leu
```

```
                        85                      90                      95
Val Leu Met Ala Gly Ala Leu Ala Val Leu Ser Glu Gly Leu Gln Gly
                100                     105                     110
Leu Asp Asp Glu Ala His Val Val Leu Ile Asp Val Glu Pro Gln Gln
            115                     120                     125
Pro Gln Ala Ala Arg Gly Ala Ala Ala His Asp Val Gln Glu Leu Gln
        130                     135                     140
Arg Leu Ala Tyr Gln Val Val Val Gly Phe Val Val Leu Thr Ala Gln
145                     150                     155                     160
Glu Val Leu Gln Val Pro Val Val Val Leu Thr Gln Gln Leu Gln Lys
                165                     170                     175
Ala Gln Asp Gly Leu His Asp Glu His Gly Cys Ala His Leu Thr Ala
                180                     185                     190
Leu His Thr Phe Ala His Leu Val Pro Pro Ala Gln Ala Gly Ala Gln
            195                     200                     205
Arg Val Ala Gly  *
210         212
```


```
        <210> 1170
        <211> 51
        <212> PRT
        <213> Homo sapiens


        <400> 1170
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
1               5                       10                      15
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
            20                      25                      30
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
            35                      40                      45
Phe His  *
        50
```


```
        <210> 1171
        <211> 157
        <212> PRT
        <213> Homo sapiens


        <400> 1171
Met Leu Val Pro Leu Asn Leu Cys Leu Gln Ser Thr Leu Ala Leu Val
1       .       5                       10                      15
Ser Leu Pro Leu Pro Gly Ile Gly Arg Ala Phe Cys Glu Trp Leu Ser
            20                      25                      30
Gly Thr Phe Lys Ala Arg Arg Gln Gly Pro Lys Ala Lys Arg Glu Leu
        35                      40                      45
Trp Asp Val Pro Ser Pro Val Arg Gly Trp Pro Trp Gly Phe Arg Leu
    50                      55                      60
Arg Gly Val Pro Gly Pro Val Ser Pro Ala Phe Gly Pro Phe Gly Glu
65                      70                      75                      80
Phe Gly Glu Glu Val Pro Thr Ala Arg Pro Gly Asp Val Arg Gly Ala
                85                      90                      95
Ala Leu Thr Phe Ile Val Gly Val Ser Ser Glu Val Ser Val Gln Arg
            100                     105                     110
```

669

```
Arg Ser Ala Gly Arg Ser His Arg Gly Arg Arg Arg Arg Ala Ser Cys
        115                 120                 125
Thr Ala Ala Pro Gly Gly Gly Val Thr Arg Arg Trp Lys Glu Tyr Cys
    130                 135                 140
Thr Gln Arg Ile Asn Asn Leu Val Lys Pro Phe Ser  *
145                 150                 155 156
```

```
<210> 1172
<211> 69
<212> PRT
<213> Homo sapiens
```

```
<400> 1172
Met Asn Pro Tyr Ile Ser Ile Ile Val Phe Ile Val Phe Leu Cys Ser
1               5               10                  15
Glu Asn Tyr Pro Trp Asn Asn Met Leu Arg Ile Thr Gly Ser Ser Pro
            20              25                  30
Tyr Leu His Phe Leu Ser Val Leu Gly Val Leu Val Asn Ser Tyr Val
        35              40                  45
Leu Ile Leu Phe Asn Ser Glu Phe Leu Thr Gln His Phe Arg Glu Arg
    50              55                  60
Ile Gln Ala Gly  *
65          68
```

```
<210> 1173
<211> 75
<212> PRT
<213> Homo sapiens
```

```
<400> 1173
Met Cys Ser Leu Lys Phe Trp Ile Cys Phe Cys Gln Ala Val Ser Met
1               5               10                  15
His Leu Cys Ala Thr Gln Leu Ser Val Ser Leu Pro Ala Gly Ile Ser
            20              25                  30
Met Phe Val Ser Gly Leu Val Cys Asp Ile Cys Val Trp Ser Gly Ser
        35              40                  45
Gly Met Thr His Pro Tyr Trp Ser Arg Met Arg Val Glu Met Met Val
    50              55                  60
Ala Gly Cys Phe Arg Glu Arg Asp Ala His  *
65          70              74
```

```
<210> 1174
<211> 77
<212> PRT
<213> Homo sapiens
```

```
<400> 1174
Met Leu Ser Ser Phe Phe Lys Ser Cys Phe Cys Val Ser Phe Trp Thr
1               5               10                  15
Leu Ser Ile Ala Thr Ser Ser Asn Leu Leu Ile Phe Ser Ser Ala Ile
```

670

```
                        20                      25                      30
Ser Asn Leu Leu Leu Ile Leu Ser Ser Val Phe Ser Ile Leu Asp Ile
            35                      40                      45
Val Val Phe Ile Thr Arg Ser Met Ile Trp Phe Cys Phe His Pro Cys
        50                      55                      60
Ile Tyr Ile Thr Cys Pro Val Phe His Ser Ala Ser  *
65                      70                      75  76



        <210> 1175
        <211> 59
        <212> PRT
        <213> Homo sapiens


        <400> 1175
Met Ser Phe Ala Phe Ser Leu Trp Tyr Pro Phe Leu Arg Asp Leu Arg
1               5                      10                      15
Ser Cys Phe Lys Leu Ser Lys Leu Ser Cys His Ser Pro Ile Ser Phe
            20                      25                      30
Val Gln Tyr Thr Thr Met Ser Thr Arg Val Ser Cys Leu Asn Leu Leu
            35                      40                      45
Tyr Pro His Leu Arg Val Val Ser Ile His Ser
        50                      55              59



        <210> 1176
        <211> 55
        <212> PRT
        <213> Homo sapiens


        <400> 1176
Met His Leu Leu Cys Ser Gly His Lys Leu Cys Leu Cys Ile Val Tyr
1               5                      10                      15
Ile Ser Phe Phe Leu Phe Phe Lys Val Tyr Gly Phe Cys Phe Leu His
            20                      25                      30
Ala Asn Ile Val Asn Tyr Thr Glu Asp Thr Thr Asp Ser Ile Tyr Lys
            35                      40                      45
Val Tyr Arg Asn Ile Ile  *
        50                      54



        <210> 1177
        <211> 86
        <212> PRT
        <213> Homo sapiens


        <400> 1177
Met Leu Ser Met Leu Leu Arg Ala Val Phe Cys Cys Cys Arg Arg Leu
1               5                      10                      15
His Leu Val Ser Ser Ile Leu Phe Cys Cys Ser Arg Asn Arg Thr Leu
            20                      25                      30
Ser Met Lys Glu Ala Asn Leu Leu Leu Arg Val Leu Ile Cys Ser Phe
        35                      40                      45
```

671

```
Ser Trp Val Arg Thr Ala Trp Met Leu Gly Ser Thr Ser Arg Thr Arg
    50                  55                  60
Gly Leu Ser Arg Leu Trp Leu Thr Val Thr Ala Val Met Pro Pro Met
65                  70                  75                  80
Pro Leu Ala Pro Pro  *
                85
```

```
    <210> 1178
    <211> 189
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1178
Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe
1                5                  10                  15
Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu
            20                  25                  30
Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr
            35                  40                  45
Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly
    50                  55                  60
Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu
65                  70                  75                  80
Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn
                85                  90                  95
Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr
            100                 105                 110
Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys
            115                 120                 125
His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala
    130                 135                 140
Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr
145                 150                 155                 160
Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe
            165                 170                 175
Lys Pro Gln Lys Thr Val Glu Glu Gly Gly Lys Pro  *
            180                 185         188
```

```
    <210> 1179
    <211> 55
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1179
Met Ile Cys Lys Tyr Phe Phe Leu Ile Leu Trp Val Val Phe Ser Phe
1                5                  10                  15
Phe Phe Met Phe Leu Asp Ala Gln Lys Phe Ile Ile Leu Met Lys Ser
            20                  25                  30
Asn Ser Ser Phe Leu Leu Leu Leu His Met Leu Leu Glu Ser Tyr Leu
            35                  40                  45
Arg Asn His Cys Gln Ile  *
    50                  54
```

```
<210> 1180
<211> 81
<212> PRT
<213> Homo sapiens


<400> 1180
Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
1               5                   10                  15
His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
            20                  25                  30
Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
        35                  40                  45
Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
    50                  55                  60
Leu Met Pro Val Ile Pro Ala Ile Trp Glu Ala Glu Ala Arg Thr Ala
65                  70                  75                  80
*
```

```
<210> 1181
<211> 69
<212> PRT
<213> Homo sapiens


<400> 1181
Met Asp Glu Val His Val Leu Gly Leu Ala Leu Leu Thr Val Leu Ile
1               5                   10                  15
Glu Leu Val Ser Pro Leu Asp Ser Leu Arg Arg His Ser Cys Tyr Ile
            20                  25                  30
Thr His Thr Phe Ser Cys Asn His Thr Asn Ser His Phe Tyr Ile Leu
        35                  40                  . 45
Ser Ile Ser Cys Thr Asn Trp Gly Leu Lys Val Tyr Lys Ile Phe Leu
    50                  55                  60
Ser Cys Glu Phe  *
65          68
```

```
<210> 1182
<211> 430
<212> PRT
<213> Homo sapiens


<400> 1182
Met Ile Thr Lys Thr Pro Ala Gln Leu Arg Ser Val Ala Thr Ile Leu
1               5                   10                  15
Lys Thr Leu Cys Leu Ala Ser Pro Thr Val Ala Asn Val Lys Ala Pro
            20                  25                  30
Pro Gln Val Ala Val Ala Ala Gly Thr Pro Asn Thr Ser Gly Ser Ile
        35                  40                  . 45
His Glu Asn Pro Pro Lys Ala Lys Ala Thr Val Asn Val Lys Gln Ala
    50                  55                  60
```

```
Ala Lys Val Val Lys Ala Ser Ser Pro Ser Tyr Leu Ala Glu Gly Lys
 65              70              75                      80
Ile Arg Cys Leu Ala Gln Pro His Pro Gly Thr Gly Val Pro Arg Ala
            85              90                      95
Ala Ala Glu Leu Pro Leu Glu Ala Glu Lys Ile Lys Thr Gly Thr Gln
            100             105             110
Lys Gln Ala Lys Thr Asp Met Ala Phe Lys Thr Ser Val Ala Val Glu
        115             120                 125
Met Ala Gly Ala Pro Ser Trp Thr Lys Val Ala Glu Glu Gly Asp Lys
        130             135             140
Pro Pro His Gly Pro Arg Cys Pro Asn His Ala Cys Gln Arg Leu Gly
145             150             155             160
Gly Leu Ser Ala Pro Pro Trp Ala Lys Pro Glu Asp Arg Gln Thr Gln
            165             170                 175
Pro Gln Pro His Gly His Val Pro Gly Lys Thr Thr Gln Gly Gly Pro
        180             185             190
Cys Pro Ala Ala Cys Glu Val Gln Gly Met Leu Val Pro Pro Met Ala
        195             200             205
Pro Thr Gly His Ser Thr Cys Asn Val Glu Ser Trp Gly Asp Asn Gly
    210             215             220
Ala Thr Arg Ala Gln Pro Ser Met Pro Gly Gln Ala Val Pro Cys Gln
225             230             235             240
Glu Asp Thr Val Gly Ser Leu Leu Ala Ser Leu Cys Ala Glu Val Ala
            245             250             255
Gly Val Leu Ala Ser Gln Glu Asp Leu Arg Thr Leu Leu Ala Lys Ala
            260             265             270
Leu Ser Gln Gly Glu Val Trp Ala Ala Leu Asn Gln Ala Leu Ser Lys
        275             280             285
Glu Val Leu Gly Ala Thr Val Thr Lys Ala Leu Pro Gln Ser Met Leu
    290             295             300
Ser Met Ala Leu Val Lys Ala Leu Ser Trp Ser Glu Leu Arg Leu Thr
305             310             315             320
Leu Ser Arg Ala Leu Ser Arg Gly Glu Leu Arg Ala Glu Leu Thr Lys
            325             330             335
Val Met Gln Gly Lys Leu Ala Glu Val Leu Ser Lys Ala Leu Thr Glu
        340             345             350
Glu Glu Trp Val Ala Leu Ser Gln Ala Leu Cys Gln Gly Glu Leu Gly
        355             360             365
Ala Leu Leu Ser Gln Ser Trp Cys Arg Val Ala Leu Arg Thr Gly Thr
    370             375             380
Ile Leu Pro Lys Ala Ala Ser Lys Ser Thr Gly Ser Gly Val Thr Lys
385             390             395             400
Thr Pro Ala Leu Val Lys Val Ala Cys Arg Arg Ser Pro Ser Ala Ala
            405             410             415
Trp Gly Pro Ser Leu Gly Pro Val Arg Pro Gln Thr Ser Lys
            420             425             430
```

<210> 1183
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1183
```
Met Thr Phe Ile Leu Ser Arg Pro Pro Phe Phe Phe Leu Phe Ser Lys
  1           5               10                  15
Arg Ser Cys Ser Gly Ala Arg Trp Ser Arg Trp Pro Gln Phe Gly Tyr
```

674

```
                    20                    25                    30
Ser Thr Ser Pro Pro Gly Ser Met Phe Phe Ser Ser Pro Pro Ser Arg
            35                    40                    45
Gly Ile Pro Ala   *
    50       52
```

```
        <210> 1184
        <211> 56
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1184
Met Ser Met Leu His Trp Ile His Phe Ile Leu His Val Ser Ile Val
1                5                    10                    15
Leu Lys Phe Leu Ser Val Lys Cys Ser Ile Ile Tyr Lys Lys Ser Phe
            20                    25                    30
Ala Ser Ser Ala Phe Phe Leu Val Gln Ala Ser Phe Phe His Ile Met
            35                    40                    45
Leu Ser Gln Leu Tyr Phe Gln   *
    50                    55
```

```
        <210> 1185
        <211> 294
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1185
Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
1                5                    10                    15
Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
            20                    25                    30
Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
            35                    40                    45
Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
    50                    55                    60
Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
65                    70                    75                    80
Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
                85                    90                    95
Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
            100                   105                   110
Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
            115                   120                   125
Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
    130                   135                   140
Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
145                   150                   155                   160
Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
                165                   170                   175
Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
                180                   185                   190
Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
            195                   200                   205
```

675

```
Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
    210             215             220
Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
225             230             235             240
Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
            245             250             255
Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
            260             265             270
Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
            275             280             285
Gln Ala Asn Ser Thr  *
    290         293
```

```
        <210> 1186
        <211> 57
        <212> PRT
        <213> Homo sapiens


        <400> 1186
Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
1               5               10              15
Met Ile His Cys Leu Gln Asn Gly Asp His Arg Arg Thr Arg Pro Pro
            20              25              30
Thr Glu Thr Gly Trp Leu Pro Leu Arg Phe His Leu Arg Thr Gly Lys
        35              40              45
Ile Leu Arg Tyr Leu Arg Gly Glu  *
    50              55  56
```

```
        <210> 1187
        <211> 191
        <212> PRT
        <213> Homo sapiens


        <400> 1187
Met Asp Leu Asp Asn Ala Lys Tyr Ser Leu Leu Gly Phe Ala Leu Phe
1               5               10              15
Trp Val Val Val Gly Phe Phe Phe Val Cys Leu Phe Trp Phe Leu Val
            20              25              30
Phe Leu Pro Trp Cys Lys Thr Val Glu Ser Cys Leu Phe Thr Gly Leu
        35              40              45
Gly Ser Ile Glu Val Cys Val Ser Ser Val Arg Phe Leu Leu Arg Thr
    50              55              60
Ile Cys Ile Phe Asn Asn Ser Thr Ser Ser Arg Pro Ser Arg Arg Asn
65              70              75              80
Glu Arg Gly Leu Val Ser Ser Pro Glu Leu Ala Leu Glu Cys Val His
            85              90              95
Leu Ala Ala His Gly Leu Val Ala Leu Arg Gly Leu Ile Gln Leu Pro
            100             105             110
Leu Gln Leu Pro Ala Val Gly Val Asp Ala Leu Gly Leu Leu Leu Cys
        115             120             125
Leu Leu Gln Leu Pro Leu Glu Leu Leu Asp Pro Gly Ile Ala Phe Leu
    130             135             140
Cys Leu Leu Leu Val Leu Leu Gly His Leu Ala Leu Val Leu His Leu
```

676

```
145                150·               155                160
Gln Gln Asp Phe Leu Gln Leu Leu Val Phe Leu Leu Gln Arg Leu Gly
                165                170               175
Gly Arg Leu Phe Leu Ser Gly Leu Leu Leu Asp Leu Leu Leu  *
                180                185                   190
```


```
        <210> 1188
        <211> 216
        <212> PRT
        <213> Homo sapiens


        <400> 1188
Met Ser Pro Pro Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu
 1               5                10               15
Leu Asn Val Glu Pro Ala Gly Ala Thr Leu Ile Arg Ile Pro Leu Arg
            20               25               30
Gln Val His Pro Gly Arg Arg Thr Leu Asn Leu Leu Arg Gly Trp Gly
        35               40               45
Lys Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys
    50               55               60
Pro Ala Ser Val Pro Leu Ser Lys Phe Leu Asp Ala Gln Tyr Phe Gly
65               70               75               80
Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp
            85               90               95
Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe
            100              105              110
Ser Val Pro Cys Trp Phe His His Arg Phe Asn Pro Asn Ala Ser Ser
    115              120              125
Ser Phe Lys Pro Ser Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly
    130              135              140
Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile
145              150              155              160
Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Gly Ile Gln Pro
            165              170              175
Gly Ser Ser Leu Phe Pro Ala Pro Met Gly Tyr Trp Gly Leu Gly Phe
            ·180              185              190
Pro Ile Leu Val Leu Trp Glu Gly Ile Ser Ala Pro Ala Gly Cys Thr
    195              200              205
Gly Gly Ala Gly Ala Ile Gly  *
    210              215
```


```
        <210> 1189
        <211> 176
        <212> PRT
        <213> Homo sapiens


        <400> 1189
Met Ala Leu Arg Gly Ala Leu Gln Ser Gln Ser Gly Leu Leu Ser Leu
 1               5                10               15
Leu Leu Leu Gly Leu Gly Asp Lys Asp Pro Val Val Arg Cys Ser Ala
            20               25               30
Ser Phe Ala Val Gly Asn Ala Ala Tyr Gln Ala Gly Pro Leu Gly Pro
        35               40               45
```

```
Ala Leu Ala Ala Ala Val Pro Ser Met Thr Gln Leu Leu Gly Asp Pro
    50                  55                  60
Gln Ala Gly Ile Arg Arg Asn Val Ala Ser Ala Leu Gly Asn Leu Gly
65                  70                  75                      80
Pro Glu Gly Leu Gly Glu Glu Leu Leu Gln Cys Glu Val Pro Gln Arg
                85                  90                  95
Leu Leu Glu Met Ala Cys Gly Asp Pro Gln Pro Asn Val Lys Glu Ala·
            100                 105                 110
Ala Leu Ile Ala Leu Arg Ser Leu Gln Gln Glu Pro Gly Ile His Gln
        115                 120                 125
Val Leu Val Ser Leu Gly Ala Ser Glu Lys Leu Ser Leu Leu Ser Leu
    130                 135                 140
Gly Asn Gln Ser Leu Pro His Ser Ser Pro Arg Pro Ala Ser Ala Lys
145                 150                 155                 160
His Cys Arg Lys Leu Ile His Leu Leu Arg Pro Ala His Ser Met  *
                165                 170                 175
```

```
        <210> 1190
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1190
Met Ala Gly Thr Ala Gln Leu Leu Gly Leu Lys Gln Leu Ile Gly Leu
1                   5                   10                  15
Glu Leu Leu Thr Ala Gln Cys Gly Gln Ile Thr Gly Tyr Arg Asp Arg
            20                  25                  30
Arg Glu Glu Leu Leu Pro Pro Arg Phe Leu Ala Thr Gly Pro Pro Ser
        35                  40                  45
Cys His Pro Pro Ser Gln Thr Val Pro · *
    50                  55      57
```

```
        <210> 1191
        <211> 88
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1191
Met Gly Ile Cys Leu Thr Trp Lys Pro Pro Thr Gly Val Ser Val Ile
1                   5                   10                  15
Leu Ile Leu Leu Ser Glu Leu His Met Lys Ser Pro Gly Arg Leu Lys
            20                  25                  30
Pro Lys Ser Ser Pro His Phe Ser Thr Val Leu Thr Pro Leu Thr Phe
        35                  40                  45
Met Tyr Pro Gly Leu Ala Leu Leu His Ser Leu Tyr Trp His Trp Gln
    50                  55                  60
Glu Asn Gly Glu Ile Leu Cys Arg Ala Ala Glu Pro Lys Phe Ala Gln
 65                 70                  75                      80
Glu Ser Lys Cys Thr Ile Tyr  *
                85      87
```

<210> 1192
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1192
Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
1   5   10   15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
            20   25   30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
        35   40   45
Gly Thr Glu Arg Val Arg Tyr Leu Asp Arg Tyr Phe His Asn Gln Glu
    50   55   60
Glu Asn Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
65   70   75   80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu
                85   90   95
Leu Gly Thr Ala Arg Arg Thr Ser Trp Ser Arg Ser Gly Ala Gly Trp
            100   105   110
Thr Thr Thr Ala Asp Thr Thr Thr Gly Leu Trp Arg Ala Ser Gln Cys
        115   120   125
Ser Gly Glu Ser Ile Leu Arg   *
130   135

<210> 1193
<211> 99
<212> PRT
<213> Homo sapiens

<400> 1193
Met Leu Ala Ser Arg Gln Ala Cys Cys Pro Pro Val Ser Ser Leu Phe
1   5   10   15
Leu Pro Leu Ser Pro Thr Leu Ser Gly Phe Phe Thr Val Cys Ser Val
            20   25   30
Ser His Leu His Val Pro Arg Gly Pro Ala Arg Leu Cys Pro Arg Met
        35   40   45
Ser His Gly Ser Pro Ser Gly Leu Pro Ala Glu Pro Ser Glu His Gly
    50   55   60
Cys Leu Leu Val Val Gly Leu Gln Gln Asn Cys Thr Arg Leu Thr Ser
65   70   75   80
Pro Ile Leu Ser Ser Arg Gly Leu Arg Val Gln Arg Arg Val Asn Leu
                85   90   95
Ala Asp   *
98

<210> 1194
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1194

679

```
Met Phe Ser Pro Ser Phe Gln Gly Ile Ile Thr Lys Val Arg Cys Val
1               5                   10                  15
Cys Val Ser Leu Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val
            20                  25                  30
Cys Val Tyr Lys Glu Pro Gly Met Arg Ala Gly Arg Gly Gly Ser Arg
        35                  40                  45
Leu *
49
```

```
        <210> 1195
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1195
Met Gln Gly Val Arg Val Ser Phe Gly Trp Ala Met Gly Leu Ala Trp
1               5                   10                  15
Gly Ser Cys Ala Leu Glu Ala Phe Ser Gly Thr Leu Leu Leu Ser Ala
            20                  25                  30
Ala Trp Thr Leu Ser Leu Ser Pro Pro Ile Cys Gly His Leu Ser Pro
        35                  40                  45
Gln Gln Val Gly Gly Arg Gly Gly Asp *
    50                  55      57
```

```
        <210> 1196
        <211> 132
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1196
Met Leu Pro Asn Ser Ser Ser Leu Trp Leu Val Met Arg Ile Leu Ile
1               5                   10                  15
Phe Cys Val Ile Pro Ala Gly Gly Val Leu Gly Ala Pro Thr Ala Ala
            20                  25                  30
Gly Leu Arg Pro Thr Gly Asp Val Ala Leu Arg Arg Pro Ala Gly Ser
        35                  40                  45
Val Glu Pro Ser Gly Ser Arg Gly Leu Arg Ala Ser Val Cys Gln Arg
    50                  55                  60
Leu Ser Met Phe Leu Ala His Phe Leu Arg Gly His Phe Leu Trp Trp
65                  70                  75                  80
Ile Leu Asp Gly Gln Arg Leu Gly Phe Pro Leu Ser Leu Ala Thr Trp
                85                  90                  95
Asn Arg Arg Lys Lys Ser Leu Gln His Leu Leu His Lys His Val Leu
            100                 105                 110
Pro Val Arg Arg His Ala Gly Pro Cys Arg Gly Pro Gln Thr Thr Ala
        115                 120                 125
Arg Gly Pro Arg
    130     132
```

```
        <210> 1197
        <211> 64
```

```
<212> PRT
<213> Homo sapiens


<400> 1197
Met Pro Tyr Leu Ile Leu Phe Phe Ala Val Tyr Ile Leu Tyr Lys Ile
1               5                   10                  15
Leu Val Lys Val His Leu Phe Ile Ala Glu Ile Ala Leu Tyr Asp Phe
            20                  25                  30
Leu Lys Phe Phe Glu Leu Tyr Gly Ile Cys Met Phe Lys Thr Leu Thr
        35                  40                  45
Cys Leu Val Val Thr Thr Leu Ile Phe Ile Asn Leu Leu Ser Leu  *
    50                  55                  60      63



<210> 1198
<211> 53
<212> PRT
<213> Homo sapiens


<400> 1198
Met Leu Gly Pro Pro Glu Ala Arg Leu Ser Leu Cys Ile Leu Leu Trp
1               5                   10                  15
Ile Ser Ile Leu Cys Pro Trp Tyr Arg Phe Thr Leu Tyr Cys Ser Ser
            20                  25                  30
Trp Pro Tyr Pro Ile Phe Asp Ser Gly Tyr Arg Pro Leu Phe Gly Thr
        35                  40                  45
Thr Leu Leu Phe  *
    50      52



<210> 1199
<211> 50
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(50)
<223> Xaa = any amino acid or nothing


<400> 1199
Met Leu Arg Leu Gly Leu Cys Ala Ala Ala Leu Leu Cys Val Cys Arg
1               5                   10                  15
Pro Gly Ala Val Arg Ala Asp Cys Trp Leu Ile Glu Gly Asp Lys Gly
            20                  25                  30
Tyr Val Trp Leu Ala Ile Cys Asn Gln Asn Gln Pro Ala Tyr Glu Thr
        35                  40                  45
Xaa Pro
    50



<210> 1200
<211> 49
<212> PRT
```

<213> Homo sapiens

<400> 1200

Met	Gly	Trp	Ser	Cys	Leu	Ala	Ile	Leu	Ser	Ser	Ala	Ile	Gly	His	Leu
1				5					10					15	
Ile	Cys	Leu	Trp	Pro	Phe	Ala	Met	Val	Val	Ala	Leu	Phe	Pro	Tyr	Leu
			20					25					30		
Gly	Tyr	Phe	Ser	Gly	Ser	Leu	Ser	Thr	Gln	Ile	Gly	Ser	Asp	Leu	Pro
		35					40					45			48
*															

<210> 1201
<211> 46
<212> PRT
<213> Homo sapiens

<400> 1201

Met	Trp	Ala	Gly	Tyr	Val	Ile	Tyr	Thr	Leu	Phe	Cys	Arg	Phe	Ser	Phe
1				5					10					15	
Ser	Leu	Ile	Ser	Ile	Arg	Ile	Arg	Lys	Leu	Gly	Ser	Ile	Gly	Phe	Glu
			20					25					30		
Leu	Pro	Leu	Gly	Asn	Asn	Ser	Gln	Leu	Gly	Cys	Pro	Leu	*		
		35					40					45			

<210> 1202
<211> 332
<212> PRT
<213> Homo sapiens

<400> 1202

Met	Pro	Leu	Pro	Trp	Ser	Leu	Ala	Leu	Pro	Leu	Leu	Leu	Ser	Trp	Val
1				5					10					15	
Ala	Gly	Gly	Phe	Gly	Asn	Ala	Ala	Ser	Ala	Arg	His	His	Gly	Leu	Leu
			20					25					30		
Ala	Ser	Ala	Arg	Gln	Pro	Gly	Val	Cys	His	Tyr	Gly	Thr	Lys	Leu	Ala
		35					40					45			
Cys	Cys	Tyr	Gly	Trp	Arg	Arg	Asn	Ser	Lys	Gly	Val	Cys	Glu	Ala	Thr
50					55					60					
Cys	Glu	Pro	Gly	Cys	Lys	Phe	Gly	Glu	Cys	Val	Gly	Pro	Asn	Lys	Cys
65				70					75					80	
Arg	Cys	Phe	Pro	Gly	Tyr	Thr	Gly	Lys	Thr	Cys	Ser	Gln	Asp	Val	Asn
			85					90					95		
Glu	Cys	Gly	Met	Lys	Pro	Arg	Pro	Cys	Gln	His	Arg	Cys	Val	Asn	Thr
			100					105					110		
His	Gly	Ser	Tyr	Lys	Cys	Phe	Cys	Leu	Ser	Gly	His	Met	Leu	Met	Pro
		115					120					125			
Asp	Ala	Thr	Cys	Val	Asn	Ser	Arg	Thr	Cys	Ala	Met	Ile	Asn	Cys	Gln
	130					135					140				
Tyr	Ser	Cys	Glu	Asp	Thr	Glu	Glu	Gly	Pro	Gln	Cys	Leu	Cys	Pro	Ser
145					150					155					160
Ser	Gly	Leu	Arg	Leu	Ala	Pro	Asn	Gly	Arg	Asp	Cys	Leu	Asp	Ile	Asp

```
                165                    170                    175
Glu Cys Ala Ser Gly Lys Val Ile Cys Pro Tyr Asn Arg Arg Cys Val
            180                    185                    190
Asn Thr Phe Gly Ser Tyr Tyr Cys Lys Cys His Ile Gly Phe Glu Leu
           195                    200                    205
Gln Tyr Ile Ser Gly Arg Tyr Asp Cys Ile Asp Ile Asn Glu Cys Thr
    210                    215                    220
Met Asp Ser His Thr Cys Ser His His Ala Asn Cys Phe Asn Thr Gln
225                    230                    235                    240
Gly Ser Phe Lys Cys Lys Cys Lys Gln Gly Tyr Lys Gly Asn Gly Leu
            245                    250                    255
Arg Cys Ser Ala Ile Pro Glu Asn Ser Val Lys Glu Val Leu Arg Ala
            260                    265                    270
Pro Gly Thr Ile Lys Asp Arg Ile Lys Lys Leu Leu Ala His Lys Asn
            275                    280                    285
Ser Met Lys Lys Lys Ala Lys Ile Lys Asn Val Thr Pro Glu Pro Thr
    290                    295                    300
Arg Thr Pro Thr Pro Lys Val Asn Leu Gln Pro Phe Asn Tyr Glu Glu
305                    310                    315                    320
Ile Val Ser Arg Gly Gly Asn Ser His Gly Gly  *
                325                    330 331
```

```
        <210> 1203
        <211> 825
        <212> PRT
        <213> Homo sapiens


        <400> 1203
Met Ala Arg Leu Gly Asn Cys Ser Leu Thr Trp Ala Ala Leu Ile Ile
  1               5                   10                   15
Leu Leu Leu Pro Gly Ser Leu Glu Glu Cys Gly His Ile Ser Val Ser
            20                   25                   30
Ala Pro Ile Val His Leu Gly Asp Pro Ile Thr Ala Ser Cys Ile Ile
            35                   40                   45
Lys Gln Asn Cys Ser His Leu Asp Pro Glu Pro Gln Ile Leu Trp Arg
        50                   55                   60
Leu Gly Ala Glu Leu Gln Pro Gly Gly Arg Gln Gln Arg Leu Ser Asp
   65                   70                   75                   80
Gly Thr Gln Glu Ser Ile Ile Thr Leu Pro His Leu Asn His Thr Gln
                85                   90                   95
Ala Phe Leu Ser Cys Cys Leu Asn Trp Gly Asn Ser Leu Gln Ile Leu
            100                   105                   110
Asp Gln Val Glu Leu Arg Ala Gly Tyr Pro Pro Ala Ile Pro His Asn
            115                   120                   125
Leu Ser Cys Leu Met Asn Leu Thr Thr Ser Ser Leu Ile Cys Gln Trp
        130                   135                   140
Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Thr Leu Lys Ser
145                   150                   155                   160
Phe Lys Ser Arg Gly Asn Cys Gln Thr Gln Gly Asp Ser Ile Leu Asp
                165                   170                   175
Cys Val Pro Lys Asp Gly Gln Ser His Cys Cys Ile Pro Arg Lys His
            180                   185                   190
Leu Leu Leu Tyr Gln Asn Met Gly Ile Trp Val Gln Ala Glu Asn Ala
        195                   200                   205
Leu Gly Thr Ser Met Ser Pro Gln Leu Cys Leu Asp Pro Met Asp Val
    210                   215                   220
```

                              683

```
Val Lys Leu Glu Pro Pro Met Leu Arg Thr Met Asp Pro Ser Pro Glu
225             230             235             240
Ala Ala Pro Pro Gln Ala Gly Cys Leu Gln Leu Cys Trp Glu Pro Trp
            245             250             255
Gln Pro Gly Leu His Ile Asn Gln Lys Cys Glu Leu Arg His Lys Pro
            260             265             270
Gln Arg Gly Glu Ala Ser Trp Ala Leu Val Gly Pro Leu Pro Leu Glu
        275             280             285
Ala Leu Gln Tyr Glu Leu Cys Gly Leu Leu Pro Ala Thr Ala Tyr Thr
    290             295             300
Leu Gln Ile Arg Cys Ile Arg Trp Pro Leu Pro Gly His Trp Ser Asp
305             310             315             320
Trp Ser Pro Ser Leu Glu Leu Arg Thr Thr Glu Arg Ala Pro Thr Val
            325             330             335
Arg Leu Asp Thr Trp Trp Arg Gln Arg Gln Leu Asp Pro Arg Thr Val
            340             345             350
Gln Leu Phe Trp Lys Pro Val Pro Leu Glu Glu Asp Ser Gly Arg Ile
        355             360             365
Gln Gly Tyr Val Val Ser Trp Arg Pro Ser Gly Gln Ala Gly Ala Ile
    370             375             380
Leu Pro Leu Cys Asn Thr Thr Glu Leu Ser Cys Thr Phe His Leu Pro
385             390             395             400
Ser Glu Ala Gln Glu Val Ala Leu Val Ala Tyr Asn Ser Ala Gly Thr
            405             410             415
Ser Arg Pro Thr Pro Val Val Phe Ser Glu Ser Arg Gly Pro Ala Leu
            420             425             430
Thr Arg Leu His Ala Met Ala Arg Asp Pro His Ser Leu Trp Val Gly
        435             440             445
Trp Glu Pro Pro Asn Pro Trp Pro Gln Gly Tyr Val Ile Glu Trp Gly
    450             455             460
Leu Gly Pro Pro Ser Ala Ser Asn Ser Asn Lys Thr Trp Arg Met Glu
465             470             475             480
Gln Asn Gly Arg Ala Thr Gly Phe Leu Leu Lys Glu Asn Ile Arg Pro
            485             490             495
Phe Gln Leu Tyr Glu Ile Ile Val Thr Pro Leu Tyr Gln Asp Thr Met
            500             505             510
Gly Pro Ser Gln His Val Tyr Ala Tyr Ser Gln Glu Met Ala Pro Ser
        515             520             525
His Ala Pro Glu Leu His Leu Lys His Ile Gly Lys Thr Trp Ala Gln
    530             535             540
Leu Glu Trp Val Pro Glu Pro Pro Glu Leu Gly Lys Ser Pro Leu Thr
545             550             555             560
His Tyr Thr Ile Phe Trp Thr Asn Ala Gln Asn Gln Ser Phe Ser Ala
            565             570             575
Ile Leu Asn Ala Ser Ser Arg Gly Phe Val Leu His Gly Leu Glu Pro
            580             585             590
Ala Ser Leu Tyr His Ile His Leu Met Ala Ala Ser Gln Ala Gly Ala
        595             600             605
Thr Asn Ser Thr Val Leu Thr Leu Met Thr Leu Thr Pro Ala Pro Thr
    610             615             620
Gly Arg Ile Pro Ser Gly Gln Val Ser Gln Thr Gln Leu Thr Ala Ala
625             630             635             640
Trp Ala Pro Gly Cys Pro Gln Ser Trp Arg Arg Met Pro Ser Ser Cys
            645             650             655
Pro Ala Leu Ala Arg His Pro Ser Pro Ser Ser Gln Cys Trp Arg Arg
            660             665             670
Met Lys Arg Ser Arg Cys Pro Gly Ser Pro Ile Thr Ala Gln Arg Pro
        675             680             685
Val Ala Ser Pro Leu Trp Ser Arg Pro Met Cys Ser Arg Gly Thr Gln
```

684

```
            690                    695                    700
Glu Gln Phe Pro Pro Ser Pro Asn Pro Ser Leu Ala Pro Ala Ile Arg
705                     710                    715                    720
Ser Phe Met Gly Ser Cys Trp Ala Ala Pro Gln Ala Gln Gly Gln Gly
                725                     730                    735
Thr Ile Ser Ala Val Thr Pro Leu Ser Pro Ser Trp Arg Ala Ser Pro
                740                     745                    750
Pro Ala Pro Ser Pro Met Arg Thr Ser Gly Ser Arg Pro Ala Pro Trp
                755                     760                    765
Gly Pro Leu Val Thr Pro Ser Pro Lys Ser Gln Glu Asp Asp Cys Val
            770                     775                    780
Phe Gly Pro Leu Leu Asn Phe Pro Pro Ser Cys Arg Gly Ser Gly Ser
785                     790                    795                    800
Met Gly Trp Arg Arg Trp Gly Ala Ser Arg Ala Ser Leu Gly Phe Pro
                805                     810                    815
Ser Trp Ala Cys Leu Leu Lys Ala  *
                820                824
```

```
        <210> 1204
        <211> 48
        <212> PRT
        <213> Homo sapiens


        <400> 1204
Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
1                   5                   10                  15
Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
                20                  25                  30
Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu  *
            35                  40                  45    47
```

```
        <210> 1205
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1205
Met Gly Ser Phe Ser Phe Ile Leu Val Leu Phe Ile Asp Cys Leu Cys
1                   5                   10                  15
Met Phe Pro Ser Val Leu Val Gln Leu Leu Cys Thr Tyr Ser Ser Leu
                20                  25                  30
Met Lys Thr Pro Leu Trp Leu Gln Ala Arg Ser Ser His  *
            35                  40                  45
```

```
        <210> 1206
        <211> 88
        <212> PRT
        <213> Homo sapiens


        <400> 1206
```

```
Met Gln Trp Cys Asn Leu Thr Ala Thr Ser Ala Phe Gln Ile Glu Ala
1               5                   10                  15
Ile Leu Leu Pro Gln Leu Ser Pro Val Ala Gly Ile Thr Gly Thr Cys
            20                  25                  30
Tyr His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His
        35                  40                  45
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
    50                  55                  60
Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser His His Ala
65                  70                  75                  80
Gln Pro Leu Lys Gly Thr Phe  *
                85      87
```

```
            <210> 1207
            <211> 186
            <212> PRT
            <213> Homo sapiens
```

```
            <400> 1207
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
1               5                   10                  15
Val Met Ser Pro Cys Gly Gly Glu Asp Ile Val Ala Asp His Val Ala
            20                  25                  30
Ser Tyr Gly Val Asn Leu Tyr Gln Ser Tyr Gly Pro Ser Gly Gln Tyr
        35                  40                  45
Ser His Glu Phe Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Glu Arg
    50                  55                  60
Lys Glu Thr Val Trp Gln Leu Pro Leu Phe Arg Arg Phe Arg Arg Phe
65                  70                  75                  80
Asp Pro Gln Phe Ala Leu Thr Asn Ile Ala Val Leu Lys His Asn Leu
            85                  90                  95
Asn Ile Val Ile Lys Arg Ser Asn Ser Thr Ala Ala Thr Asn Glu Val
            100                 105                 110
Pro Glu Val Thr Val Phe Ser Lys Ser Pro Val Thr Leu Gly Gln Pro
        115                 120                 125
Asn Thr Leu Ile Cys Leu Val Asp Asn Ile Phe Pro Pro Val Val Asn
    130                 135                 140
Ile Thr Trp Leu Ser Asn Gly His Ser Val Thr Glu Gly Val Ser Glu
145                 150                 155                 160
Thr Arg Pro Ser Ser Pro Lys Ser Asp His Phe Leu Leu Gln Asp Gln
                165                 170                 175
Val Thr Ser Pro Ser Phe Pro Phe Glu  *
            180                 185
```

```
            <210> 1208
            <211> 46
            <212> PRT
            <213> Homo sapiens
```

```
            <400> 1208
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
1               5                   10                  15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser
```

```
                    20                      25                    30
Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu  *
                35                      40                    45
```

```
     <210> 1209
     <211> 199
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1209
Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
1                   5                   10                      15
Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
                20                      25                      30
Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
            35                      40                      45
Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
        50                      55                      60
Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
65                      70                      75                      80
Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
                85                      90                      95
Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
            100                     105                     110
Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
        115                     120                     125
Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
    130                     135                     140
Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
145                     150                     155                     160
Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
                165                     170                     175
Leu Ala Val Leu Pro Arg Ile Met Glu Met Asn Gln Trp Ile Ser Lys
            180                     185                     190
Ser Thr Pro Met Arg Leu  *
        195                 198
```

```
     <210> 1210
     <211> 59
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1210
Met Leu Val Thr Arg Pro Ser Gly Asn Thr Trp Ile Pro Phe Phe Cys
1                   5                   10                      15
Trp Leu Leu Phe Cys Val Val Glu Leu Leu Ser Pro Gly Asn Leu Gly
                20                      25                      30
Pro Ser Val Leu Glu Val Val Leu Pro Asp Val Phe Lys Leu Asp Leu
            35                      40                      45
Leu Ser Ser Leu Leu Asp Val Gly Ser Leu  *
        50                      55              58
```

```
<210> 1211
<211> 227
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(227)
<223> Xaa = any amino acid or nothing


<400> 1211
Met Ala Ser Ile Cys Ser Trp Arg Val Met Leu Ala Trp Ala Ala Cys
1               5                   10                  15
Trp Val Arg Ala His Ala Ala Leu Ser Gly His Pro Arg Ser Thr Phe
            20                  25                  30
Ser Leu Trp Leu Ser Gly Ile Ser Leu Pro Xaa Pro Ile Phe Leu Pro
        35                  40                  45
Met Ala Val Ser Leu Leu Thr Pro Lys Asp Val Lys Tyr Ala Arg Ser
        50                  55                  60
Pro Asn Cys Phe Lys Ala Ala Leu Asn Ile Pro Asp Pro Gly Ala Val
65                  70                  75                  80
His Leu Ile Ile Ala Leu Leu Leu Thr Asp Gly Ala Ile Pro Leu Leu
                85                  90                  95
Gln Pro Ala Arg Val Lys Lys Ser Asn Ala His Val Phe Leu His Phe
            100                 105                 110
Ala Gly Gly Asp Leu Leu Pro Ser Asn Gly Gly His Lys Ile Leu Ile
        115                 120                 125
Trp Ser Arg Gly Trp Arg Gln Gly Leu Gly Gly Phe Gly Ile Ile Ile
        130                 135                 140
Leu Ala Asp Asn Asp Leu Val Trp Ser Trp Gly Gln Ser Trp Arg His
145                 150                 155                 160
Gly Cys Leu Leu Gly Val Gly Ala Leu Ser Ala Leu Leu Leu His His
                165                 170                 175
Leu Asn Pro His Pro Tyr Leu Val Leu Gly Cys Pro Gly Pro Ala Gly
            180                 185                 190
Lys Glu Ala Pro Pro Pro Ser Pro Val Cys His Pro Pro His Gln Thr
            195                 200                 205
Arg Pro Pro Ser Gln Leu Pro His Ser Pro Gln Thr Phe His Ser Ala
210                 215                 220
Pro Glu  *
225 226




<210> 1212
<211> 62
<212> PRT
<213> Homo sapiens


<400> 1212
Met Cys Val Ser Val Arg Val Cys Val Cys Val Cys Val Cys Ala Arg
1               5                   10                  15
Val Cys Ala Arg Leu Cys Val Cys Val His Ala Arg Leu Cys Val His
            20                  25                  30
Val Arg Val Ser Ala Arg Val Ser Val Tyr Val Cys Thr Arg Val Ser
        35                  40                  45
Val Cys Val His Ala Arg Ala Arg His His Arg Ser Ile  *
```

```
        50                  55              60  61
```

```
        <210> 1213
        <211> 55
        <212> PRT
        <213> Homo sapiens


        <400> 1213
Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
1               5               10                  15
Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
            20              25                  30
Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
        35              40                  45
Ser Glu Glu Lys Lys Ser  *
    50              54
```

```
        <210> 1214
        <211> 642
        <212> PRT
        <213> Homo sapiens


        <400> 1214
Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
1               5               10                  15
Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
            20              25                  30
Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
        35              40                  45
Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
    50              55                  60
Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
65              70                  75                  80
Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
            85              90                  95
Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
        100             105             110
Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
        115             120             125
Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
    130             135                 140
Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
145             150                 155                 160
Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn
            165                 170                 175
Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
            180             185                 190
Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
        195             200                 205
Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
    210             215                 220
Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
225             230                 235                 240
```

```
Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg
                245             250                 255
Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp
            260             265             270
Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu
        275             280             285
Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala
    290             295             300
Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys
305             310             315                 320
Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser
            325             330             335
Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly
            340             345             350
Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val
        355             360             365
Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln
    370             375             380
Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr
385             390             395                 400
Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys
            405             410             415
Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala
            420             425             430
Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser
        435             440             445
Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys
    450             455             460
Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr
465             470             475                 480
Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe
            485             490             495
Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg
            500             505             510
Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr
    515             520             525
Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser
    530             535             540
Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys
545             550             555                 560
Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp
            565             570             575
Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg
            580             585             590
Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
            595             600             605
Glu Glu Gly Thr Arg Ala Phe Gly Glu Cys Cys Cys Lys Asp Leu Thr
    610             615             620
Lys His Lys Arg Cys Pro Arg Leu His His Ser Glu Ile Glu His Cys
625             630             635                 640
Lys *
641
```

```
<210> 1215
<211> 85
<212> PRT
<213> Homo sapiens
```

```
<400> 1215
Met Leu Phe Leu Thr Leu Ile Ser Phe Cys Gly Phe Leu Leu Leu His
1               5                   10                  15
Arg Leu Thr Ser Met Val Arg Leu Phe Leu Gly Ala Ala Ile Gln Lys
            20                  25                  30
Ile Leu Ser Lys Arg Leu Glu Phe Ser Leu Leu Pro Leu Val Ser Phe
        35                  40                  45
Ala Gly Ser Val Asn Met Ala Gly Pro Cys Thr Ala Asn Ala Gly Pro
    50                  55                  60
His Gly Gly Leu Gly Lys Pro Gly Arg Leu Cys Gly Ser Phe Arg Ser
65                  70                  75                  80
Ser Arg Ser Gln  *
            84
```

```
<210> 1216
<211> 403
<212> PRT
<213> Homo sapiens
```

```
<400> 1216
Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala Ala
1               5                   10                  15
Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu Leu Leu
            20                  25                  30
Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln Asn Leu Phe
        35                  40                  45
Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala Thr Ile Ser Cys
    50                  55                  60
Gln Val Asn Lys Ser Asp Asp Ser Val Ile Gln Leu Leu Asn Pro Asn
65                  70                  75                  80
Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu Lys Asp Ser Arg
                85                  90                  95
Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys Val Ser Leu Thr
            100                 105                 110
Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys Gln Leu Tyr Thr
            115                 120                 125
Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val Leu Val Pro Pro
        130                 135                 140
Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala Val Glu Gly Glu
145                 150                 155                 160
Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys Pro Ala Thr Thr
                165                 170                 175
Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly Lys Ser Glu Val
            180                 185                 190
Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln Leu Met Leu Lys
            195                 200                 205
Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys Gln Val Glu His
    210                 215                 220
Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr Leu Glu Val Gln
225                 230                 235                 240
Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro Leu Gln Gly Leu
            245                 250                 255
Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu Ala Ile Gly Lys
            260                 265                 270
```

Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp Asp Glu Met Pro
        275   280   285
Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile Asn Asn Leu Asn
        290   295   300
Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser Asn Ile Val Gly
305   310   315   320
Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp Pro Pro Thr Thr
                325   330   335
Ile Pro Pro Pro Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
                340   345   350
Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly Glu Glu Gly Ser
        355   360   365
Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val Val Ala Val Val
    370   375   380
Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly Arg Tyr Phe Ala
385   390   395   400
Gln Thr *
402

        <210> 1217
        <211> 49
        <212> PRT
        <213> Homo sapiens

        <400> 1217
Met Arg Ala Trp Ala Trp Pro Phe Cys Thr Ser Val Thr Ser Leu Ser
1   5   10   15
Ala Met Ala Ser Pro Trp Arg Arg Trp Pro Arg Arg Pro Ala Ser Arg
                20   25   30
Thr Ala Ser Arg Ala Pro Ser Ala Gly Ile Ser Gly Ser Thr Ala Pro
        35   40   45   48
    *

        <210> 1218
        <211> 304
        <212> PRT
        <213> Homo sapiens

        <400> 1218
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Leu Arg Tyr
1   .   5   10   15
Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
                20   25   30
Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
        35   40   45
Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
    50   55   60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
65   70   75   80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
                85   90   95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

```
                   100                      105                      110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
            115                      120                      125
Glu Val Leu Gly Asp Val His Val Leu Ala Pro Ala Val Pro Ser Cys
        130                      135                      140
Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys
145                      150                      155                      160
Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp
                165                      170                      175
Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn
            180                      185                      190
Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr
        195                      200                      205
Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser
    210                      215                      220
Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu
225                      230                      235                      240
Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val Ala Leu Val Ile
                245                      250                      255
Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe
            260                      265                      270
Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr
        275                      280                      285
Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys Ser Phe Ile Ile  *
    290                      295                      300          303
```

```
        <210> 1219
        <211> 1126
        <212> PRT
        <213> Homo sapiens


        <400> 1219
Met Trp Phe Leu Phe Leu Cys Pro Asn Leu Trp Ala Met Pro Val Gln
1                   5                       10                      15
Ile Ile Met Gly Val Ile Leu Leu Tyr Asn Leu Leu Gly Ser Ser Ala
            20                      25                      30
Leu Val Gly Ala Ala Val Ile Val Leu Leu Ala Pro Ile Gln Tyr Phe
        35                      40                      45
Ile Ala Thr Lys Leu Ala Glu Ala Gln Lys Ser Thr Leu Asp Tyr Ser
    50                      55                      60
Thr Glu Arg Leu Lys Lys Thr Asn Glu Ile Leu Lys Gly Ile Lys Leu
65                      70                      75                      80
Leu Lys Leu Tyr Ala Trp Glu His Ile Phe Cys Lys Ser Val Glu Glu
                85                      90                      95
Thr Arg Met Lys Glu Leu Ser Ser Leu Lys Thr Phe Ala Leu Tyr Thr
            100                     105                     110
Ser Leu Ser Ile Phe Met Asn Ala Ala Ile Pro Ile Ala Ala Val Leu
        115                     120                     125
Ala Thr Phe Val Thr His Ala Tyr Ala Ser Gly Asn Asn Leu Lys Pro
    130                     135                     140
Ala Glu Ala Phe Ala Ser Leu Ser Leu Phe His Ile Leu Val Thr Pro
145                     150                     155                     160
Leu Phe Leu Leu Ser Thr Val Val Arg Phe Ala Val Lys Ala Ile Ile
                165                     170                     175
Ser Val Gln Lys Leu Asn Glu Phe Leu Leu Ser Asp Glu Ile Gly Asp
            180                     185                     190
```

```
Asp Ser Trp Arg Thr Gly Glu Ser Ser Leu Pro Phe Glu Ser Cys Lys
        195                 200                 205
Lys His Thr Gly Val Gln Pro Lys Thr Ile Asn Arg Lys Gln Pro Gly
    210                 215                 220
Arg Tyr His Leu Asp Ser Tyr Glu Gln Ser Thr Arg Arg Leu Arg Pro
225                 230                 235                 240
Ala Glu Thr Glu Asp Ile Ala Ile Lys Val Thr Asn Gly Tyr Phe Ser
            245                 250                 255
Trp Gly Ser Gly Leu Ala Thr Leu Ser Asn Ile Asp Ile Arg Ile Pro
            260                 265                 270
Thr Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly Cys Gly Lys Ser
        275                 280                 285
Ser Leu Leu Leu Ala Ile Leu Gly Glu Met Gln Thr Leu Glu Gly Lys
    290                 295                 300
Val His Trp Ser Asn Val Asn Glu Ser Glu Pro Ser Phe Glu Ala Thr
305                 310                 315                 320
Arg Ser Arg Asn Arg Tyr Ser Val Ala Tyr Ala Ala Gln Lys Pro Trp
                325                 330                 335
Leu Leu Asn Ala Thr Val Glu Glu Asn Ile Thr Phe Gly Ser Pro Phe
            340                 345                 350
Asn Lys Gln Arg Tyr Lys Ala Val Thr Asp Ala Cys Ser Leu Gln Pro
        355                 360                 365
Asp Ile Asp Leu Leu Pro Phe Gly Asp Gln Thr Glu Ile Gly Glu Arg
    370                 375                 380
Gly Ile Asn Leu Ser Gly Gly Gln Arg Gln Arg Ile Cys Val Ala Arg
385                 390                 395                 400
Ala Leu Tyr Gln Asn Thr Asn Ile Val Phe Leu Asp Asp Pro Phe Ser
                405                 410                 415
Ala Leu Asp Ile His Leu Ser Asp His Leu Met Gln Glu Gly Ile Leu
            420                 425                 430
Lys Phe Leu Gln Asp Asp Lys Arg Thr Leu Val Leu Val Thr His Lys
        435                 440                 445
Leu Gln Tyr Leu Thr His Ala Asp Trp Ile Ile Ala Met Lys Asp Gly
    450                 455                 460
Ser Val Leu Arg Glu Gly Thr Leu Lys Asp Ile Gln Thr Lys Asp Val
465                 470                 475                 480
Glu Leu Tyr Glu His Trp Lys Thr Leu Met Asn Arg Gln Asp Gln Glu
                485                 490                 495
Leu Glu Lys Asp Met Glu Ala Asp Gln Thr Thr Leu Glu Arg Lys Thr
            500                 505                 510
Leu Arg Arg Ala Met Tyr Ser Arg Glu Ala Lys Ala Gln Met Glu Asp
        515                 520                 525
Glu Asp Glu Glu Glu Glu Glu Glu Asp Glu Asp Asp Asn Met Ser
    530                 535                 540
Thr Val Met Arg Leu Arg Thr Lys Met Pro Trp Lys Thr Cys Trp Arg
545                 550                 555                 560
Tyr Leu Thr Ser Gly Gly Phe Phe Leu Leu Ile Leu Met Ile Phe Ser
                565                 570                 575
Lys Leu Leu Lys His Ser Val Ile Val Ala Ile Asp Tyr Trp Leu Ala
            580                 585                 590
Thr Trp Thr Ser Glu Tyr Ser Ile Asn Asn Thr Gly Lys Ala Asp Gln
        595                 600                 605
Thr Tyr Tyr Val Ala Gly Phe Ser Ile Leu Cys Gly Ala Gly Ile Phe
    610                 615                 620
Leu Cys Leu Val Thr Ser Leu Thr Val Glu Trp Met Gly Leu Thr Ala
625                 630                 635                 640
Ala Lys Asn Leu His His Asn Leu Leu Asn Lys Ile Ile Leu Gly Pro
            645                 650                 655
Ile Arg Phe Phe Asp Thr Thr Pro Leu Gly Leu Ile Leu Asn Arg Phe
```

694

```
                    660                    665                    670
Ser Ala Asp Thr Asn Ile Ile Asp Gln His Ile Pro Pro Thr Leu Glu
        675                    680                    685
Ser Leu Thr Arg Ser Thr Leu Leu Cys Leu Ser Ala Ile Gly Met Ile
    690                    695                    700
Ser Tyr Ala Thr Pro Val Phe Leu Val Ala Leu Leu Pro Leu Gly Val
705                    710                    715                    720
Ala Phe Tyr Phe Ile Gln Lys Tyr Phe Arg Val Ala Ser Lys Asp Leu
                725                    730                    735
Gln Glu Leu Asp Asp Ser Thr Gln Leu Pro Leu Leu Cys His Phe Ser
            740                    745                    750
Glu Thr Ala Glu Gly Leu Thr Thr Ile Arg Ala Phe Arg His Glu Thr
        755                    760                    765
Arg Phe Lys Gln Arg Met Leu Glu Leu Thr Asp Thr Asn Asn Ile Ala
    770                    775                    780
Tyr Leu Phe Leu Ser Ala Ala Asn Arg Trp Leu Glu Val Arg Thr Asp
785                    790                    795                    800
Tyr Leu Gly Ala Cys Ile Val Leu Thr Ala Ser Ile Ala Ser Ile Ser
            805                    810                    815
Gly Ser Ser Asn Ser Gly Leu Val Gly Leu Gly Leu Leu Tyr Ala Leu
        820                    825                    830
Thr Ile Thr Asn Tyr Leu Asn Trp Val Val Arg Asn Leu Ala Asp Leu
        835                    840                    845
Glu Val Gln Met Gly Ala Val Lys Lys Val Asn Ser Phe Leu Thr Met
    850                    855                    860
Glu Ser Glu Asn Tyr Glu Gly Thr Met Asp Pro Ser Gln Val Pro Glu
865                    870                    875                    880
His Trp Pro Gln Glu Gly Glu Ile Lys Ile His Asp Leu Cys Val Arg
            885                    890                    895
Tyr Glu Asn Asn Leu Lys Pro Val Leu Lys His Val Lys Ala Tyr Ile
        900                    905                    910
Lys Pro Gly Gln Lys Val Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys
    915                    920                    925
Ser Ser Leu Ser Leu Ala Phe Phe Arg Met Val Asp Ile Phe Asp Gly
    930                    935                    940
Lys Ile Val Ile Asp Gly Ile Asp Ile Ser Lys Leu Pro Leu His Thr
945                    950                    955                    960
Leu Arg Ser Arg Leu Ser Ile Ile Leu Gln Asp Pro Ile Leu Phe Ser
                965                    970                    975
Gly Ser Ile Arg Phe Asn Leu Asp Pro Glu Cys Lys Cys Thr Asp Asp
            980                    985                    990
Arg Leu Trp Glu Ala Leu Glu Ile Ala Gln Leu Lys Asn Met Val Lys
        995                    1000                   1005
Ser Leu Pro Gly Gly Leu Asp Ala Val Val Thr Glu Gly Gly Glu Asn
    1010                   1015                   1020
Phe Ser Val Gly Gln Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val
1025                   1030                   1035                   1040
Arg Lys Ser Ser Ile Leu Ile Met Asp Glu Ala Thr Ala Ser Ile Asp
                1045                   1050                   1055
Met Ala Thr Glu Asn Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala
            1060                   1065                   1070
Asp Arg Thr Val Val Thr Met Ala His Arg Val Ser Ser Ile Met Asp
        1075                   1080                   1085
Ala Gly Leu Val Leu Val Phe Ser Glu Gly Ile Leu Val Glu Cys Asp
    1090                   1095                   1100
Thr Val Pro Asn Leu Phe Ala His Lys Asn Gly Pro Phe Ser Thr Leu
1105                   1110                   1115                   1120
Val Met Thr Asn Lys  *
            1125
```

```
<210> 1220
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1220
Met Ser Ser Val Ser Leu Ile Glu Phe Pro Leu Tyr Met Ile Cys Pro
1               5                   10                  15
Phe Ala Leu Ala Ala Phe Lys Thr Phe Ser Leu Ala Leu Ile Leu Asp
            20                  25                  30
Ile Leu Leu Thr Ile Phe Leu Asp Asp Ile His Phe Val  *
        35                  40                  45



<210> 1221
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1221
Met Leu Ile Leu Leu Leu Leu Glu Phe Gly Ile Thr Ile Ile Lys Val
1               5                   10                  15
Thr Cys Arg Leu Arg Ile Val Leu Cys Tyr Arg Lys Tyr Lys Thr Lys
           20                  25                  30
Arg Asn Lys Lys Leu Lys Leu Gly Asn Asn Ser Lys Phe Gln Arg Met
        35                  40                  45
Cys Leu Arg Thr Ser Phe His  *
    50                  55



<210> 1222
<211> 253
<212> PRT
<213> Homo sapiens


<400> 1222
Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
1               5                   10                  15
Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
            20                  25                  30
Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
        35                  40                  45
Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
        50                  55                  60
Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
65                  70                  75                  80
Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
                85                  90                  95
Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
            100                 105                 110
Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu
```

696

```
                    115                    120                    125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
        130                    135                    140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
145                    150                    155                    160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
                165                    170                    175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
                180                    185                    190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
            195                    200                    205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
    210                    215                    220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
225                    230                    235                    240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro  *
                245                    250    252
```

```
<210> 1223
<211> 858
<212> PRT
<213> Homo sapiens


<400> 1223
Met Lys Met Leu Thr Arg Leu Gln Val Leu Thr Leu Ala Leu Phe Ser
1               5                   10                      15
Lys Gly Phe Leu Leu Ser Leu Gly Asp His Asn Phe Leu Arg Arg Glu
                20                  25                      30
Ile Lys Ile Glu Gly Asp Leu Val Leu Gly Gly Leu Phe Pro Ile Asn
        35                  40                      45
Glu Lys Gly Thr Gly Thr Glu Glu Cys Gly Arg Ile Asn Glu Asp Arg
    50                  55                      60
Gly Ile Gln Arg Leu Glu Ala Met Leu Phe Ala Ile Asp Glu Ile Asn
65              70                      75                      80
Lys Asp Asp Tyr Leu Leu Pro Gly Val Lys Leu Gly Val His Ile Leu
                85                  90                      95
Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Glu Phe
            100                    105                    110
Val Arg Ala Ser Leu Thr Lys Val Asp Glu Ala Glu Tyr Met Cys Pro
        115                    120                    125
Asp Gly Ser Tyr Ala Ile Gln Glu Asn Ile Pro Leu Leu Ile Ala Gly
    130                    135                    140
Val Ile Gly Gly Ser Tyr Ser Arg Val Ser Ile Gln Gly Ala Asn Leu
145                    150                    155                    160
Leu Arg Leu Phe Gln Ile Pro Gln Ile Arg Tyr Ala Ser Thr Ser Ala
                165                    170                    175
Lys Leu Ser Asp Lys Ser Arg Tyr Asp Tyr Phe Ala Arg Thr Val Pro
            180                    185                    190
Pro Asp Phe Tyr Gln Ala Lys Ala Met Ala Glu Ile Leu Arg Phe Phe
        195                    200                    205
Asn Trp Thr Tyr Val Ser Thr Val Ala Ser Glu Gly Asp Tyr Gly Glu
    210                    215                    220
Thr Gly Ile Glu Ala Phe Glu Gln Glu Ala Arg Leu Arg Asn Ile Cys
225                    230                    235                    240
Ile Ala Thr Ala Glu Lys Val Gly Arg Ser Asn Ile Arg Lys Ser Tyr
                245                    250                    255
```

697

```
Asp Ser Val Ile Arg Glu Leu Leu Gln Lys Pro Asn Ala Arg Val Val
            260             265             270
Val Leu Phe Met Arg Ser Asp Asp Ser Arg Glu Leu Ile Ala Ala Ala
        275             280             285
Ser Arg Ala Asn Ala Ser Phe Thr Trp Val Ala Ser Asp Gly Trp Gly
    290             295             300
Ala Gln Glu Ser Ile Ile Lys Gly Ser Glu His Val Ala Tyr Gly Ala
305             310             315             320
Ile Thr Leu Glu Leu Ala Ser Gln Pro Val Arg Gln Phe Asp Arg Tyr
            325             330             335
Phe Gln Ser Leu Asn Pro Tyr Asn Asn His Arg Asn Pro Trp Phe Arg
        340             345             350
Asp Phe Trp Glu Gln Lys Phe Gln Cys Ser Leu Gln Asn Lys Arg Asn
        355             360             365
His Arg Arg Val Cys Asp Lys His Leu Ala Ile Asp Ser Ser Asn Tyr
    370             375             380
Glu Gln Glu Ser Lys Ile Met Phe Val Val Asn Ala Val Tyr Ala Met
385             390             395             400
Ala His Ala Leu His Lys Met Gln Arg Thr Leu Cys Pro Asn Thr Thr
            405             410             415
Lys Leu Cys Asp Ala Met Lys Ile Leu Asp Gly Lys Lys Leu Tyr Lys
            420             425             430
Asp Tyr Leu Leu Lys Ile Asn Phe Thr Ala Pro Phe Asn Pro Asn Lys
        435             440             445
Asp Ala Asp Ser Ile Val Lys Phe Asp Thr Phe Gly Asp Gly Met Gly
450             455             460
Arg Tyr Asn Val Phe Asn Phe Gln Asn Val Gly Gly Lys Tyr Ser Tyr
465             470             475             480
Leu Lys Val Gly His Trp Ala Glu Thr Leu Ser Leu Asp Val Asn Ser
            485             490             495
Ile His Trp Ser Arg Asn Ser Val Pro Thr Ser Gln Cys Ser Asp Pro
            500             505             510
Cys Ala Pro Asn Glu Met Lys Asn Met Gln Pro Gly Asp Val Cys Cys
        515             520             525
Trp Ile Cys Ile Pro Cys Glu Pro Tyr Glu Tyr Leu Ala Asp Glu Phe
    530             535             540
Thr Cys Met Asp Cys Gly Ser Gly Gln Trp Pro Thr Ala Asp Leu Thr
545             550             555             560
Gly Cys Tyr Asp Leu Pro Glu Asp Tyr Ile Arg Trp Glu Asp Ala Trp
            565             570             575
Ala Ile Gly Pro Val Thr Ile Ala Cys Leu Gly Phe Met Cys Thr Cys
            580             585             590
Met Val Val Thr Val Phe Ile Lys His Asn Asn Thr Pro Leu Val Lys
        595             600             605
Ala Ser Gly Arg Glu Leu Cys Tyr Ile Leu Leu Phe Gly Val Gly Leu
    610             615             620
Ser Tyr Cys Met Thr Phe Phe Phe Ile Ala Lys Pro Ser Pro Val Ile
625             630             635             640
Cys Ala Leu Arg Arg Leu Gly Leu Gly Ser Ser Phe Ala Ile Cys Tyr
            645             650             655
Ser Ala Leu Leu Thr Lys Thr Asn Cys Ile Ala Arg Ile Phe Asp Gly
        660             665             670
Val Lys Asn Gly Ala Gln Arg Pro Lys Phe Ile Ser Pro Ser Ser Gln
    675             680             685
Val Phe Ile Cys Leu Gly Leu Ile Leu Val Gln Ile Val Met Val Ser
    690             695             700
Val Trp Leu Ile Leu Glu Ala Pro Gly Thr Arg Arg Tyr Thr Leu Ala
705             710             715             720
Glu Lys Arg Glu Thr Val Ile Leu Lys Cys Asn Val Lys Asp Ser Ser
```

698

```
                    725                    730                    735
Met Leu Ile Ser Leu Thr Tyr Asp Val Ile Leu Val Ile Leu Cys Thr
            740                    745                    750
Val Tyr Ala Phe Lys Thr Arg Lys Cys Pro Glu Asn Phe Asn Glu Ala
            755                    760                    765
Lys Phe Ile Gly Phe Thr Met Tyr Thr Thr Cys Ile Ile Trp Leu Ala
            770                    775                    780
Phe Leu Pro Ile Phe Tyr Val Thr Ser Ser Asp Tyr Arg Val Gln Thr
785                    790                    795                    800
Thr Thr Met Cys Ile Ser Val Ser Leu Ser Gly Phe Val Val Leu Gly
                805                    810                    815
Cys Leu Phe Ala Pro Lys Val His Ile Ile Leu Phe Gln Pro Gln Lys
            820                    825                    830
Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
            835                    840                    845
Thr Gly Thr His Ile Leu Ser Val Leu  *
850                    855        857
```

```
     <210> 1224
     <211> 69
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1224
Met Ser His Met Val Pro Leu Ala Leu Leu Leu Pro Leu Phe Pro Thr
1                5                     10                    15
Ser Arg Arg Ala Ala Leu Pro Phe Leu Pro Leu Phe Phe Gly Leu Met
            20                    25                    30
Phe Pro Ala Thr Thr Asp Leu Pro Pro Pro His Pro Ser Ala Asp Leu
            35                    40                    45
Ala Val His Cys Arg His Gly Gly Leu Ile Ser Asp Arg Lys Leu Arg
        50                    55                    60
Leu Ser Glu Arg  *
65          68
```

```
     <210> 1225
     <211> 55
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1225
Met Cys Tyr His Thr Trp Leu Ile Phe Ile Phe Leu Val Glu Met Gly
1                5                     10                    15
Phe Tyr His Val Gly Gln Ala Gly Phe Lys Leu Leu Ala Ser Ser Gly
            20                    25                    30
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
            35                    40                    45
His Ala Arg Pro Thr Phe  *
        50              54
```

```
     <210> 1226
```

699

```
<211> 51
<212> PRT
<213> Homo sapiens


<400> 1226
Met Ile Leu Ser Leu Leu Lys Phe Phe Pro Leu Leu Ser Ser Asp Thr
1               5                   10                  15
Pro Asn Ser Ser Val Pro Leu Leu Thr Thr Pro Arg Asp Pro Pro Tyr
            20                  25                  30
His Leu Ser Pro Cys Ser Ser Ser Tyr Phe Val Lys Glu Gly Phe Ser
        35                  40                  45
Val Val  *
    50




<210> 1227
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1227
Met Ile Leu Phe Cys Val Met Val Phe Ile Leu Phe Ile Thr Phe His
1               5                   10                  15
Leu Gln Leu Pro Thr Val Gly Asp Val Thr Tyr Cys Phe Cys Ser Asn
            20                  25                  30
Lys Leu Arg Lys Thr Arg Glu Leu Lys Lys Ile Ser Ser Asn  *
        35                  40                  45  46




<210> 1228
<211> 60
<212> PRT
<213> Homo sapiens


<400> 1228
Met Phe Ser Thr Ala Phe Trp Pro Pro Phe Leu Asn Pro Ser Leu Met
1               5                   10                  15
Phe Phe Thr Leu Leu Cys Ser Asp Phe Met Pro Cys Glu Ala Val Cys
            20                  25                  30
Ser Ser Ile Ile Tyr Ser Phe Ile Pro Val Thr Lys Thr Gln Gly Ala
        35                  40                  45
Ala Pro His Thr Arg Gly Pro Gln Pro His Thr  *
    50              55                  59




<210> 1229
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1229
Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val
```

```
      1                    5                         10                        15
    Ala Leu Ala Gly Ala Gly Ala Ala Val Ile Ala Met Val His Tyr Leu
                    20              25              30
    Met Val Leu Ser Ala Asn Trp Ala Tyr Val Lys Asp Ala Cys Arg Met
                35              40              45
    Ala Glu Val  *
        50  51
```

```
        <210> 1230
        <211> 362
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1230
    Met Pro Val Ile Trp Ser Ala Leu Ser Ala Val Leu Leu Leu Ala Ser
    1                    5                         10                        15
    Ser Tyr Phe Val Gly Ala Leu Ile Val His Ala Asp Cys Phe Leu Met
                    20              25              30
    Arg Asn His Thr Ile Thr Glu Gln Pro Met Cys Phe Gln Arg Thr Thr
                35              40              45
    Pro Leu Ile Leu Gln Glu Val Ala Ser Phe Leu Lys Arg Asn Lys His
        50              55              60
    Gly Pro Phe Leu Leu Phe Val Ser Phe Leu His Val His Ile Pro Leu
    65              70              75              80
    Ile Thr Met Glu Asn Phe Leu Gly Lys Ser Leu His Gly Leu Tyr Gly
                    85              90              95
    Asp Asn Val Lys Glu Met Asp Trp Met Val Gly Arg Ile Leu Asp Thr
                100             105             110
    Leu Asp Val Glu Gly Leu Ser Asn Ser Thr Leu Ile Tyr Phe Thr Ser
                115             120             125
    Asp His Gly Gly Ser Leu Glu Asn Gln Leu Gly Asn Thr Gln Tyr Gly
                130             135             140
    Gly Trp Asn Gly Ile Tyr Lys Gly Gly Lys Gly Met Gly Gly Trp Glu
    145             150             155             160
    Gly Gly Ile Arg Val Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro
                    165             170             175
    Ala Gly Arg Val Ile Gly Glu Pro Thr Ser Leu Met Asp Val Phe Pro
                180             185             190
    Thr Val Val Arg Leu Ala Gly Ser Glu Val Pro Gln Asp Arg Val Ile
                195             200             205
    Asp Gly Gln Asp Leu Leu Pro Leu Leu Leu Gly Thr Ala Gln His Ser
        210             215             220
    Asp His Glu Phe Leu Met His Tyr Cys Glu Arg Phe Leu His Ala Ala
    225             230             235             240
    Arg Trp His Gln Arg Asp Arg Gly Thr Met Trp Lys Val His Phe Val
                245             250             255
    Thr Pro Val Phe Gln Pro Arg Gly Ser Arg Cys Leu Leu Trp Lys Glu
                260             265             270
    Lys Val Cys Pro Cys Phe Gly Glu Lys Ser Ser Pro Pro Arg Ser His
                275             280             285
    Pro Cys Phe Phe Asp Leu Ser Arg Ala Pro Ser Glu Thr His Ile Leu
        290             295             300
    Thr Pro Ala Ser Glu Pro Val Phe Tyr Gln Val Met Glu Arg Ser Pro
    305             310             315             320
    Ala Gly Gly Val Gly Thr Pro Ala Asp Thr Gln Pro Ser Ser Ser Ala
                    325             330             335
```

Ala Gly Gln Ala Gly Gln Tyr Leu Glu Thr Gly Gly Ala Ala Leu Leu
              340   345   350
Trp Ala Val Pro Pro Leu Val Gly Pro *
          355   360 361

        <210> 1231
        <211> 53
        <212> PRT
        <213> Homo sapiens

        <400> 1231
Met Leu Arg Leu Gly Val Ala Phe His Met Glu Leu Leu Cys Arg Gly
 1   5   10   15
Arg Leu Leu Leu Leu Ile Pro Thr Ala Glu Thr Arg Cys Asp His Arg
            20   25   30
Arg Leu Gln Asn Leu Lys Leu Gly Leu Ser Asn Thr Leu Asp Lys His
         35   40   45
Gln Glu Pro His *
    50   52

        <210> 1232
        <211> 56
        <212> PRT
        <213> Homo sapiens

        <400> 1232
Met Leu Asn Phe Ile Ser Pro Phe Gly Ser Thr Ile Leu Leu Leu Ile
 1   5   10   15
Pro Ser Ala Leu Pro Pro Ser Pro Pro Ser Arg Cys Ser Leu Leu Ser
            20   25   30
Pro Pro Pro Thr Thr Pro Leu Pro Leu Pro Leu Pro Ser Pro Phe Ser
         35   40   45
Ser Pro Leu Leu Ser Phe Phe *
    50   55

        <210> 1233
        <211> 56
        <212> PRT
        <213> Homo sapiens

        <400> 1233
Met Gln Leu His Val Ser Leu Pro Trp Leu Leu Arg Phe Pro Gly Leu
 1   5   10   15
Asp Cys Thr Leu His Pro Asp Gln Pro Ser Ile Gln Leu Leu Gln Gly
            20   25   30
Thr Ile Asp Leu Leu Asp Ser Val Ile Leu Ser Cys Ser Leu Cys Leu
         35   40   45
Phe Gly Val Leu Gln Met His Ile
    50   55 56

                            702

```
<210> 1234
<211> 125
<212> PRT
<213> Homo sapiens


<400> 1234
Met Leu Ser Gln Leu Pro Arg Cys Gln Ser Ser Val Pro Ala Leu Ala
1               5                   10                  15
His Pro Thr Arg Leu His Tyr Leu Leu Arg Leu Leu Thr Phe Leu Leu
            20                  25                  30
Gly Pro Gly Ala Gly Gly Ala Glu Ala Gln Gly Met Leu Gly Arg Ala
        35                  40                  45
Leu Leu Leu Ser Ser Leu Pro Asp Asn Cys Ser Phe Trp Asp Ala Phe
    50                  55                  60
Arg Pro Glu Gly Arg Arg Ser Val Leu Arg Thr Ile Gly Glu Tyr Leu
65                  70                  75                  80
Glu Gln Asp Glu Glu Gln Pro Thr Pro Ser Gly Phe Glu Pro Thr Val
            85                  90                  95
Asn Pro Ser Ser Gly Ile Ser Lys Met Glu Leu Leu Ala Cys Phe Ser
            100                 105                 110
Val Ser Ala Leu Pro Glu Gly Lys Leu Leu Glu Gln   *
        115                 120                 124


<210> 1235
<211> 72
<212> PRT
<213> Homo sapiens


<400> 1235
Met Phe Cys Phe Leu His Val Phe Leu Val Ser Leu Pro Phe Leu Thr
1               5                   10                  15
Ser Tyr Ser Cys Leu Gln Ile Ile Ser Tyr Ser Ser Phe Lys Ala Trp
            20                  25                  30
Phe Lys Tyr Pro Phe Leu Cys Lys Ile Phe Pro Thr Leu Pro Asn Asn
        35                  40                  45
Asp Ser Leu Gln Gln Thr Pro Leu Val His Gly Val Cys Leu Gln Gln
    50                  55                  60
Gly Val His His Arg Leu Ile   *
65                  70  71


<210> 1236
<211> 48
<212> PRT
<213> Homo sapiens


<400> 1236
Met Ala Pro Gly Gly Ala Lys Gly Gln Gly Ala Ser Ala Leu Ala Leu
1               5                   10                  15
Leu Phe Ile Leu Ala Ser Pro Ala Thr Gly Gly Gly Pro Arg Leu Trp
            20                  25                  30
```

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Arg Ala Gly Gly Leu Gly Phe Thr His Cys Gln Ala Asn Ser Thr Thr
        35   40   45   48

<210> 1237
<211> 208
<212> PRT
<213> Homo sapiens

<400> 1237
Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu
 1   5   10   15
Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg
            20   25   30
Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly
        35   40   45
Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro
    50   55   60
Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr
65   70   75   80
Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala
                85   90   95
Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu
            100   105   110
Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu
            115   120   125
Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser
    130   135   140
Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys
145   150   155   160
Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro
                165   170   175
Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn
            180   185   190
Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys *
        195   200   205   207

<210> 1238
<211> 173
<212> PRT
<213> Homo sapiens

<400> 1238
Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln Val
 1   5   10   15
Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu Thr Pro
            20   25   30
Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro Lys Glu Glu
        35   40   45
Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala Ser Glu Glu Glu
    50   55   60
Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu Ala Lys Glu Thr Ser

```
     65                    70                    75                    80
Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile Ser Met Arg His Asp Gly
                    85                    90                    95
Asn Met Val Phe Ser Pro Phe Gly Met Ser Leu Ala Met Thr Gly Leu
               100                   105                   110
Met Leu Gly Ala Thr Gly Pro Thr Glu Thr Gln Ile Lys Arg Gly Leu
          115                   120                   125
His Leu Gln Ala Leu Lys Pro Thr Lys Pro Gly Leu Leu Pro Ser Leu
     130                   135                   140
Phe Lys Gly Leu Arg Glu Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu
145                   150                   155                   160
Thr Ala Gly Glu Phe Cys Leu His Pro Gln Gly Phe   *
               165                   170     172
```

```
     <210> 1239
     <211> 357
     <212> PRT
     <213> Homo sapiens


     <400> 1239
Met Ala Phe Leu Gly Leu Phe Ser Leu Leu Val Leu Gln Ser Met Ala
  1              5                   10                   15
Thr Gly Ala Thr Phe Pro Glu Glu Ala Ile Ala Asp Leu Ser Val Asn
               20                   25                   30
Met Tyr Asn Arg Leu Arg Ala Thr Gly Glu Asp Glu Asn Ile Leu Phe
          35                   40                   45
Ser Pro Leu Ser Ile Ala Leu Ala Met Gly Met Met Glu Leu Gly Ala
     50                   55                   60
Gln Gly Ser Thr Gln Lys Glu Ile Arg His Ser Met Gly Tyr Asp Ser
65                   70                   75                   80
Leu Lys Asn Gly Glu Glu Phe Ser Phe Leu Lys Glu Phe Ser Asn Met
               85                   90                   95
Val Thr Ala Lys Glu Ser Gln Tyr Val Met Lys Ile Ala Asn Ser Leu
               100                  105                  110
Phe Val Gln Asn Gly Phe His Val Asn Glu Glu Phe Leu Gln Met Met
          115                  120                  125
Lys Lys Tyr Phe Asn Ala Ala Val Asn His Val Asp Phe Ser Gln Asn
     130                  135                  140
Val Ala Val Ala Asn Tyr Ile Asn Lys Trp Val Glu Asn Asn Thr Asn
145                  150                  155                  160
Asn Leu Val Lys Asp Leu Val Ser Pro Arg Asp Phe Asp Ala Ala Thr
               165                  170                  175
Tyr Leu Ala Leu Ile Asn Ala Val Tyr Phe Lys Gly Asn Trp Lys Ser
          180                  185                  190
Gln Phe Arg Pro Glu Asn Thr Arg Thr Phe Ser Phe Thr Lys Asp Asp
          195                  200                  205
Glu Ser Glu Val Gln Ile Pro Met Met Tyr Gln Gln Gly Glu Phe Tyr
     210                  215                  220
Tyr Gly Glu Phe Ser Asp Gly Ser Asn Glu Ala Gly Gly Ile Tyr Gln
225                  230                  235                  240
Val Leu Glu Ile Pro Tyr Glu Gly Asp Glu Ile Ser Met Met Leu Val
               245                  250                  255
Leu Ser Arg Gln Glu Val Pro Leu Ala Thr Leu Glu Pro Leu Val Lys
          260                  265                  270
Ala Gln Leu Val Glu Glu Trp Ala Asn Ser Val Lys Lys Gln Lys Val
     275                  280                  285
```

```
Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
    290             295             300
Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
305             310             315             320
Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
            325             330             335
Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Ala Gln Lys Leu Leu
            340             345             350
Leu Ser Gln Glu  *
            355 356
```

```
<210> 1240
<211> 707
<212> PRT
<213> Homo sapiens
```

```
<400> 1240
Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
1               5               10              15
Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
            20              25              30
Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
        35              40              45
Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
    50              55              60
Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
65              70              75              80
Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
            85              90              95
Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
        100             105             110
Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
    115             120             125
Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
    130             135             140
Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
145             150             155             160
Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
            165             170             175
Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
        180             185             190
Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
    195             200             205
Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
    210             215             220
Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
225             230             235             240
Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
            245             250             255
Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
        260             265             270
Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
    275             280             285
Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
    290             295             300
His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser
```

```
305                    310                    315                    320
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp
                325                    330                    335
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp
            340                    345                    350
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met
        355                    360                    365
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg
    370                    375                    380
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val
385                    390                    395                    400
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys
                405                    410                    415
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg
            420                    425                    430
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe
        435                    440                    445
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His
    450                    455                    460
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg
465                    470                    475                    480
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His
                485                    490                    495
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu
            500                    505                    510
Ser Glu Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu
        515                    520                    525
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu
    530                    535                    540
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg
545                    550                    555                    560
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys
                565                    570                    575
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys
            580                    585                    590
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser
        595                    600                    605
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr
    610                    615                    620
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu
625                    630                    635                    640
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu
                645                    650                    655
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln
            660                    665                    670
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu
        675                    680                    685
Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
    690                    695                    700
Ser Arg Leu
705     707
```

```
<210> 1241
<211> 98
<212> PRT
<213> Homo sapiens
```

```
        <400> 1241
Met Ala Phe Arg Thr Phe Ser Trp Ile Phe Ser Gly Leu Leu Ser Pro
 1               5                   10                  15
Thr Leu Ala Ser Pro Ser Val Ser Met Met Thr Met Glu Val Leu Leu
            20              25                  30
Ser Gly Ile Leu Cys Ser Ser Arg Ala Leu Phe Ser Ile Leu Met Pro
        35                  40                  45
Leu Ser Ser Pro Ser Leu Met Leu Val Ile Pro Leu Ser Ser Met Leu
    50                  55                  60
Phe Thr Asn Val Leu Ala Ser Trp Arg Phe Ser Gly Val Ala Trp Thr
65                  70                  75                  80
Lys Cys Ser Phe His Val Asp Thr Ser Pro Leu Asn Arg Met Lys Phe
                85                  90                  95
Arg *
97
```

```
        <210> 1242
        <211> 422
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1242
Met Val Leu Trp Glu Ser Pro Arg Gln Cys Ser Ser Trp Thr Leu Cys
 1               5                   10                  15
Glu Gly Phe Cys Trp Leu Leu Leu Leu Pro Val Met Leu Leu Ile Val
            20                  25                  30
Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr Ser Leu Ser Asp Cys
        35                  40                  45
Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
    50                  55                  60
Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
65                  70                  75                  80
Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
                85                  90                  95
Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
                100                 105                 110
Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
        115                 120                 125
Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
    130                 135                 140
Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
145                 150                 155                 160
Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asn Ala Glu
                165                 170                 175
Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
                180                 185                 190
Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
        195                 200                 205
Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Leu Ser Leu
    210                 215                 220
Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Lys Ser Glu Asp Gly
225                 230                 235                 240
His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
                245                 250                 255
Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe
```

```
                   260                    265                    270
Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
          275                    280                    285
Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
      290                    295                    300
Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Pro Val Cys
305                    310                    315                    320
Leu Asn Arg Ser Cys Asp Trp Asn Asn Ser Asp Cys Cys His Leu Cys
                  325                    330                    335
Gly Gly Pro Leu His His Lys Glu Met Pro Pro Glu Ala Asn Arg Ile
              340                    345                    350
Pro Pro Asp Arg Ser Lys Ile Pro Gly His Tyr Ser Ser Arg Gln Tyr
          355                    360                    365
Asn Lys Ser Arg Pro Thr Arg Leu Ile Leu Lys Gly Ala Cys Phe His
      370                    375                    380
Ser Gly Trp Thr Thr Glu Ser Leu Asp Tyr Thr Ile Gln Tyr Tyr Arg
385                    390                    395                    400
Gln Lys Asn Lys Thr Arg Asp Leu Thr His Val Cys Leu Ala Phe Val
                  405                    410                    415
Gly Asn Leu His Gln  *
              420 421
```

```
      <210> 1243
      <211> 46
      <212> PRT
      <213> Homo sapiens


      <400> 1243
Met Leu Phe Val Phe Ile Cys Ser Tyr Phe His Leu Ser Leu Phe Leu
 1                 5                  10                     15
Leu Phe Pro Phe Leu Pro Val Ser Leu Pro Ser Phe Leu Pro Phe Phe
              20                  25                     30
Leu Pro Ser Phe Leu Glu Phe Thr Glu Val Phe Pro Arg  *
          35                  40                     45


      <210> 1244
      <211> 46
      <212> PRT
      <213> Homo sapiens


      <400> 1244
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
 1                 5                  10                     15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
              20                  25                     30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val  *
          35                  40                     45


      <210> 1245
      <211> 244
      <212> PRT
```

<213> Homo sapiens

<400> 1245
Met Ala Gly Val Ile Ala Gly Leu Leu Met Phe Ile Ile Ile Leu Leu
1   5   10   15
Gly Val Met Leu Thr Ile Lys Arg Arg Arg Asn Ala Tyr Ser Tyr Ser
            20   25   30
Tyr Tyr Leu Lys Leu Ala Lys Lys Gln Lys Glu Thr Gln Ser Gly Ala
            35   40   45
Gln Arg Glu Met Gly Pro Val Ala Ser Ala Asp Lys Pro Thr Thr Lys
        50   55   60
Leu Ser Ala Ser Arg Asn Asp Glu Gly Phe Ser Ser Ser Ser Gln Asp
65   70   75   80
Val Asn Gly Phe Asn Gly Ser Arg Gly Glu Leu Ser Gln Pro Thr Leu
                85   90   95
Thr Ile Gln Thr His Pro Tyr Arg Thr Cys Asp Pro Val Glu Met Ser
            100   105   110
Tyr Pro Arg Asp Gln Phe Gln Pro Ala Ile Arg Val Ala Asp Leu Leu
            115   120   125
Gln His Ile Thr Gln Met Lys Arg Gly Gln Gly Tyr Gly Phe Lys Glu
            130   135   140
Glu Tyr Glu Ala Leu Pro Glu Gly Gln Thr Ala Ser Trp Asp Thr Ala
145   150   155   160
Lys Glu Asp Glu Asn Arg Asn Lys Asn Arg Tyr Gly Asn Ile Ile Ser
                165   170   175
Tyr Asp His Ser Arg Val Arg Leu Leu Val Leu Asp Gly Asp Pro His
            180   185   190
Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr His Arg Pro Arg
            195   200   205
His Tyr Ile Ala Thr Gln Gly Pro Met Gln Glu Thr Val Lys Asp Phe
            210   215   220
Trp Arg Met Ile Trp Gln Glu Asn Ser Ala Ser Ile Val Met Val Thr
225   230   235   240
Asn Pro Gly *
        243

<210> 1246
<211> 565
<212> PRT
<213> Homo sapiens

<400> 1246
Met Ala Val Phe Arg Ser Gly Leu Leu Val Leu Thr Thr Pro Leu Ala
1   5   10   15
Ser Leu Ala Pro Arg Leu Ala Ser Ile Leu Thr Ser Ala Ala Arg Leu
            20   25   30
Val Asn His Thr Leu Tyr Val His Leu Gln Pro Gly Met Ser Leu Glu
            35   40   45
Gly Pro Ala Gln Pro Gln Tyr Ser Pro Val Gln Ala Thr Phe Glu Val
        50   55   60
Leu Asp Phe Ile Thr His Leu Tyr Ala Gly Ala Asp Val His Arg His
65   70   75   80
Leu Asp Val Arg Ile Leu Leu Thr Asn Ile Arg Thr Lys Ser Thr Phe
                85   90   95
Leu Pro Pro Leu Pro Thr Ser Val Gln Asn Leu Ala His Pro Pro Glu

```
                100                     105                     110
Val Val Leu Thr Asp Phe Gln Thr Leu Asp Gly Ser Gln Tyr Asn Pro
            115                     120                     125
Val Lys Gln Gln Leu Val Arg Tyr Ala Thr Ser Cys Tyr Ser Cys Cys
    130                     135                     140
Pro Arg Leu Ala Ser Val Leu Leu Tyr Ser Asp Tyr Gly Ile Gly Glu
145                     150                     155                     160
Val Pro Val Glu Pro Leu Asp Val Pro Leu Pro Ser Thr Ile Arg Pro
                165                     170                     175
Ala Ser Pro Val Ala Gly Ser Pro Lys Gln Pro Val Arg Gly Tyr Tyr
                180                     185                     190
Arg Gly Ala Val Gly Gly Thr Phe Asp Arg Leu His Asn Ala His Lys
        195                     200                     205
Val Leu Leu Ser Val Ala Cys Ile Leu Ala Gln Glu Gln Leu Val Val
    210                     215                     220
Gly Val Ala Asp Lys Asp Leu Leu Lys Ser Lys Leu Leu Pro Glu Leu
225                     230                     235                     240
Leu Gln Pro Tyr Thr Glu Arg Val Glu His Leu Ser Glu Phe Leu Val
                245                     250                     255
Asp Ile Lys Pro Ser Leu Thr Phe Asp Val Ile Pro Leu Leu Asp Pro
                260                     265                     270
Tyr Gly Pro Ala Gly Ser Asp Pro Ser Leu Glu Phe Leu Val Val Ser
        275                     280                     285
Glu Glu Thr Tyr Arg Gly Gly Met Ala Ile Asn Arg Phe Arg Leu Glu
    290                     295                     300
Asn Asp Leu Glu Glu Leu Ala Leu Tyr Gln Ile Gln Leu Leu Lys Asp
305                     310                     315                     320
Leu Arg His Thr Glu Asn Glu Glu Asp Lys Val Ser Ser Ser Ser Phe
                325                     330                     335
Arg Gln Arg Met Leu Gly Asn Leu Leu Arg Pro Pro Tyr Glu Arg Pro
                340                     345                     350
Glu Leu Pro Thr Cys Leu Tyr Val Ile Gly Leu Thr Gly Ile Ser Gly
        355                     360                     365
Ser Gly Lys Ser Ser Ile Ala Gln Arg Leu Lys Gly Leu Gly Ala Phe
    370                     375                     380
Val Ile Asp Ser Asp His Leu Gly His Arg Ala Tyr Ala Pro Gly Gly
385                     390                     395                     400
Pro Ala Tyr Gln Pro Val Val Glu Ala Phe Gly Thr Asp Ile Leu His
                405                     410                     415
Lys Asp Gly Ile Ile Asn Arg Lys Val Leu Gly Ser Arg Val Phe Gly
                420                     425                     430
Asn Lys Lys Gln Leu Lys Ile Leu Thr Asp Ile Met Trp Pro Ile Ile
        435                     440                     445
Ala Lys Leu Ala Arg Glu Glu Met Asp Arg Ala Val Ala Glu Gly Lys
    450                     455                     460
Arg Val Cys Val Ile Asp Ala Ala Val Leu Leu Glu Ala Gly Trp Gln
465                     470                     475                     480
Asn Leu Val His Glu Val Trp Thr Ala Val Ile Pro Glu Thr Glu Ala
                485                     490                     495
Val Arg Arg Ile Val Glu Arg Asp Gly Leu Ser Glu Ala Ala Ala Gln
                500                     505                     510
Ser Arg Leu Gln Ser Gln Met Ser Gly Gln Gln Leu Val Glu Gln Ser
        515                     520                     525
His Val Val Leu Ser Thr Leu Trp Glu Pro His Ile Thr Gln Arg Gln
    530                     535                     540
Val Glu Lys Ala Trp Ala Leu Leu Gln Lys Arg Ile Pro Lys Thr His
545                     550                     555                     560
Gln Ala Leu Asp *
        564
```

711

```
      <210> 1247
      <211> 737
      <212> PRT
      <213> Homo sapiens


      <400> 1247
Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
1               5                   10                  15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
            20                  25                  30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
            35                  40                  45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
        50                  55                  60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
65                  70                  75                  80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
                85                  90                  95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
            100                 105                 110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
        115                 120                 125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
    130                 135                 140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp
145                 150                 155                 160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
                165                 170                 175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
            180                 185                 190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
        195                 200                 205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
    210                 215                 220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
225                 230                 235                 240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
                245                 250                 255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile
            260                 265                 270
Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr
        275                 280                 285
Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly
    290                 295                 300
Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn
305                 310                 315                 320
Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile
                325                 330                 335
Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile
            340                 345                 350
Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr
        355                 360                 365
Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly
    370                 375                 380
Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser
```

```
385                   390                   395                   400
Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
                405                   410                   415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
                420                   425                   430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
                435                   440                   445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
    450                   455                   460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
465                   470                   475                   480
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
                485                   490                   495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
                500                   505                   510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
            515                   520                   525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
            530                   535                   540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
545                   550                   555                   560
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
                565                   570                   575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
                580                   585                   590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
            595                   600                   605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
    610                   615                   620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
625                   630                   635                   640
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
                645                   650                   655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
                660                   665                   670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
            675                   680                   685
Thr Arg Pro Gly Leu Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
    690                   695                   700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
705                   710                   715                   720
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
                725                   730                   735 736
*
```

```
<210> 1248
<211> 175
<212> PRT
<213> Homo sapiens


<400> 1248
Met Gly Trp Val Trp Thr Leu Cys Thr Ala Ser Ala Cys Leu Thr Leu
  1                   5                   10                  15
Leu Phe Trp Ser Gln Thr Pro Gly Lys Ala Phe Gln Ile Pro Cys Pro
                20                    25                    30
```

713

```
Pro Pro His Leu Ser His Trp Cys Leu Ser Pro Met Gln Met Asp Asp
        35                  40                  45
Gly Cys Ala Arg Leu Cys Val Leu Trp Thr Ala Trp Met Arg Trp Arg
    50                  55                  60
Val Leu Met Cys Ser Cys Arg Val Trp Ala Thr Asp Leu Gly Ile Phe
65                  70                  75                  80
Leu Gly Val Ala Leu Gly Asn Glu Pro Leu Glu Met Trp Pro Leu Thr
                85                  90                  95
Gln Asn Glu Glu Cys Thr Val Thr Gly Phe Leu Arg Asp Lys Leu Gln
            100                 105                 110
Tyr Arg Ser Arg Leu Gln Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr
        115                 120                 125
Lys Ile Arg Val Pro Tyr Glu Gly Val Phe Arg Ile Ala Asn Val Thr
    130                 135                 140
Arg Leu Arg Ala Gln Gly Ser Glu Arg Glu Leu Arg Tyr Leu Gly Val
145                 150                 155                 160
Leu Val Ser Leu Ser Ala Thr Glu Ser Val His Asp Glu Leu Leu
                165                 170                 175


        <210> 1249
        <211> 68
        <212> PRT
        <213> Homo sapiens


        <400> 1249
Met Phe His Arg Cys Arg Leu Lys Ala Gly Leu Met Leu Trp Arg Ser
1                   5                   10                  15
Leu Glu Ser Gly Leu Cys Ala Gly Ala His Arg Leu Trp Leu Glu Gly
            20                  25                  30
Pro Met Ala Phe Pro Glu Leu Gly Glu Lys Asp Pro Leu Leu Ala Ser
        35                  40                  45
Pro Leu Ala Leu Ile Pro Gln Ser Leu Ile Gly Leu Gly Gly Leu Arg
    50                  55                  60
Gly Ala Trp  *
65          67


        <210> 1250
        <211> 209
        <212> PRT
        <213> Homo sapiens


        <400> 1250
Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
1                   5                   10                  15
Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
            20                  25                  30
Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
        35                  40                  45
Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
    50                  55                  60
Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
65                  70                  75                  80
Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met
```

```
                         85                      90                      95
Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
                        100                     105                     110
Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
            115                     120                     125
Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
        130                     135                     140
Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
145                     150                     155                     160
Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
                    165                     170                     175
Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
                180                     185                     190
Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
            195                     200                     205     208
 *
```

```
        <210> 1251
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1251
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
1               5                       10                      15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
            20                      25                      30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
        35                      40                      45
Ser Ser Arg Pro Ala Trp Pro Ile Arg  *
        50                      55          57
```

```
        <210> 1252
        <211> 84
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1252
Met Tyr Lys Asn Phe Cys Leu Phe Phe Ile Phe Ala Leu Tyr Gln Gly
1               5                       10                      15
Leu Ala Asn Tyr Gly Leu Trp Ala Asn Ser Asn Pro Leu His Val Ser
            20                      25                      30
Val Tyr Lys Ile Leu Leu Gly Cys Val Pro Trp Leu Leu Ser Val Val
            35                      40                      45
Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr His His Tyr Ala Trp
        50                      55                      60
Ile Ile Phe Cys Ile Phe Ser Thr Asp Gly Val Ser Pro Arg Trp Pro
65                      70                      75                      80
Arg Trp Ser  *
            83
```

```
<210> 1253
<211> 73
<212> PRT
<213> Homo sapiens


<400> 1253
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1               5                   10                  15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
            20                  25                  30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
        35                  40                  45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Glu
    50                  55                  60
Gly Ala Gly Val Gly Leu Arg Phe  *
65                  70      72
```


```
<210> 1254
<211> 209
<212> PRT
<213> Homo sapiens


<400> 1254
Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
1               5                   10                  15
Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
            20                  25                  30
Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
        35                  40                  45
Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
    50                  55                  60
Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
65                  70                  75                  80
Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met
                85                  90                  95
Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
                100                 105                 110
Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
            115                 120                 125
Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
    130                 135                 140
Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
145                 150                 155                 160
Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
                165                 170                 175
Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
            180                 185                 190
Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
        195                 200                 205         208
    *
```

<210> 1255
<211> 730
<212> PRT
<213> Homo sapiens

<400> 1255

```
Met Gly Pro Trp Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Leu
1               5                   10                  15
Ala Ala Ala Gly Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe
            20                  25                  30
Gln Cys Gln Asp Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly
        35                  40                  45
Ser Ala Glu Cys Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu
    50                  55          .           60
Ser Val Thr Cys Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn
65                  70                  75                  80
Arg Cys Ile Pro Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp
            85                  90                  95
Asn Gly Ser Asp Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp
            100                 105                 110
Glu Phe Arg Cys His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys
        115                 120                 125
Asp Ser Asp Arg Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro
    130                 135                 140
Val Leu Thr Cys Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys
145                 150                 155                 160
Ile Pro Gln Leu Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly
            165                 170                 175
Ser Asp Glu Trp Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly
        180                 185                 190
Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu
    195                 200                 205
Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp
    210                 215                 220
Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu
225                 230                 235                 240
Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp
            245                 250                 255
Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn
            260                 265                 270
Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu
        275                 280                 285
Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp
    290                 295                 300
Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp
305                 310                 315                 320
Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr
            325                 330                 335
Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys
        340                 345                 350
Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys
    355                 360                 365
Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln
    370                 375                 380
Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr
385                 390                 395                 400
Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg
            405                 410                 415
```

```
Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu
        420             425                 430
Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln
        435             440                 445
Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser
    450             455                 460
Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala
465             470                 475                 480
Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly
            485                 490                 495
Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe
            500             505                 510
Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His
        515             520                 525
Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys
        530             535                 540
Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile
545             550                 555                 560
Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr
            565                 570                 575
Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly
            580                 585                 590
Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro
        595             600                 605
Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile
    610             615                 620
Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn
625             630                 635                 640
Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His
            645             650                 655
Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu
        660             665                 670
Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn
        675             680             685
Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu
    690             695                 700
Ala Arg Gly His Glu Glu Leu Pro His Arg Gly Leu Arg Leu Gln Trp
705             710                 715                 720
Pro Pro Arg Arg His Pro Pro Ser Gly  *
            725             729
```

```
        <210> 1256
        <211> 264
        <212> PRT
        <213> Homo sapiens


        <400> 1256
Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala Phe
1               5                   10                  15
Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp Asp Ala
            20              25                  30
Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly Glu
        35              40                  45
Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro Thr
    50              55                  60
Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Ser Val Gly
```

```
        65                      70                      75                      80
Arg His Gly Lys Ile Gly Pro Ile Gly Ser Lys Gly Glu Lys Gly Asp
                        85                      90                      95
Ser Gly Asp Ile Gly Pro Pro Gly Pro Asn Gly Glu Pro Gly Leu Pro
                100                     105                     110
Cys Glu Cys Ser Gln Leu Arg Lys Ala Ile Gly Glu Met Asp Asn Gln
        115                     120                     125
Val Ser Gln Leu Thr Ser Glu Leu Lys Phe Ile Lys Asn Ala Val Ala
        130                     135                     140
Gly Val Arg Glu Thr Glu Ser Lys Ile Tyr Leu Leu Val Lys Glu Glu
145                     150                     155                     160
Lys Arg Tyr Ala Asp Ala Gln Leu Ser Cys Gln Gly Arg Gly Gly Thr
                165                     170                     175
Leu Ser Met Pro Lys Asp Glu Ala Ala Asn Gly Leu Met Ala Ala Tyr
                180                     185                     190
Leu Ala Gln Ala Gly Leu Ala Arg Val Phe Ile Gly Ile Asn Asp Leu
        195                     200                     205
Glu Lys Glu Gly Ala Phe Val Tyr Ser Asp His Ser Pro Met Arg Thr
        210                     215                     220
Phe Asn Lys Trp Arg Ser Gly Glu Pro Asn Asn Ala Tyr Asp Glu Glu
225                     230                     235                     240
Asp Cys Val Glu Met Val Ala Ser Gly Gly Trp Asn Asp Val Ala Cys
                245                     250                     255
His Thr Thr Met Tyr Phe Met    *
                260                     263
```

```
        <210> 1257
        <211> 407
        <212> PRT
        <213> Homo sapiens


        <400> 1257
Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu Cys Ala Ala
  1                 5                       10                      15
Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln Ser Lys Ser
                20                      25                      30
Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala His Gly Leu
        35                      40                      45
Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg Thr Arg Ser
        50                      55                      60
Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly Ser Ala Cys
65                      70                      75                      80
Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro Glu Ser Arg
                85                      90                      95
Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu Lys Ala Gln
                100                     105                     110
Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln Gln Gln Arg
        115                     120                     125
His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln Ser Gln Phe
        130                     135                     140
Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala Lys Pro Ala
145                     150                     155                     160
Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp Pro Ala His
                165                     170                     175
Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln Glu Leu Phe
                180                     185                     190
```

```
Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly
        195                 200                 205
Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
        210                 215                 220
Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
225                 230                 235                 240
Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
                245                 250                 255
Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
        260                 265                 270
Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
        275                 280                 285
Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
        290                 295                 300
Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
305                 310                 315                 320
Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
                325                 330                 335
Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
        340                 345                 350
Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
        355                 360                 365
Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
        370                 375                 380
Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
385                 390                 395                 400
Ala Ala Glu Ala Ala Ser   *
                405 406
```

```
<210> 1258
<211> 120
<212> PRT
<213> Homo sapiens
```

```
<400> 1258
Met Met Thr Pro Lys Leu Met Ile Trp Leu Leu Leu Gln Ala Lys Ser
1                 5                 10                  15
Ser Ile Ser Met Leu Glu Lys Ser Ser Lys Cys Leu Gly Arg Cys Phe
                20                  25                  30
Ser Ser Phe Ala Lys Asn Leu Val Met Ile Gln Ser Cys Val Ser Trp
        35                  40                  45
Ala Leu Met Ser Glu Asn Phe Tyr Arg Thr Leu Met Leu Cys Thr Thr
        50                  55                  60
Thr Leu Leu Pro Ser Thr Gln Glu Cys Val His Leu Pro Leu Gly Ala
65                  70                  75                  80
Leu Met Gln Lys Arg Ala Lys Asp Ser Phe Cys Thr Thr Thr Gln Arg
                85                  90                  95
Glu Lys Asp Phe Arg Ile Leu Ser Leu Glu Ser Ser Lys Gln Trp His
        100                 105                 110
Asn Lys Ser Met Ala Leu Lys   *
        115                 119
```

```
<210> 1259
<211> 160
```

720

```
        <212> PRT
        <213> Homo sapiens


        <400> 1259
Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1               5                   10                  15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
                20                  25                  30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Gly Glu Cys Tyr Phe Phe Asn
        35                  40                  45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
    50                  55                  60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Tyr Arg Ala Val Thr
65                  70                  75                  80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Leu Glu Gln Pro Glu Gly Arg
                85                  90                  95
Pro Trp Asn Ser Gln Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val
                100                 105                 110
Asp Thr Tyr Cys Arg His Asn Tyr Gly Val Val Glu Ser Phe Thr Val
        115                 120                 125
Gln Arg Arg Val His Pro Lys Val Thr Val Tyr Pro Ser Lys Thr Gln
    130                 135                 140
Pro Leu Gln Ala Pro Gln Pro Ala Val Leu Phe Cys Glu Trp Phe    *
145                 150                 155             159



        <210> 1260
        <211> 111
        <212> PRT
        <213> Homo sapiens


        <400> 1260
Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser Thr Leu Cys Pro Ser
 1               5                   10                  15
Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu Pro Leu Arg Ala Thr
                20                  25                  30
Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys Gln Glu Phe Glu Lys
        35                  40                  45
Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala Val Ala Ala Leu Leu
    50                  55                  60
Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met Ser Glu Phe Gln Ser
65                  70                  75                  80
Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile Phe Glu Ser Ile Gln
                85                  90                  95
Lys Asp Ser Ser Ser Thr Asn Leu Glu Ser Met Asp Thr Ser    *
                100                 105                 110



        <210> 1261
        <211> 123
        <212> PRT
        <213> Homo sapiens


        <400> 1261
```

721

```
Met Ile Pro Ala Arg Phe Ala Gly Val Leu Leu Ala Leu Ala Leu Ile
 1           5                   10                  15
Leu Pro Gly Thr Leu Cys Ala Glu Gly Thr Arg Gly Arg Ser Ser Thr
            20                  25                  30
Ala Arg Cys Ser Leu Phe Gly Ser Asp Phe Val Asn Thr Phe Asp Gly
        35                  40                  45
Ser Met Tyr Ser Phe Ala Gly Tyr Cys Ser Tyr Leu Leu Ala Gly Gly
    50                  55                  60
Cys Gln Lys Arg Ser Phe Ser Ile Ile Gly Asp Phe Gln Asn Gly Lys
65                  70                  75                  80
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
            85                  90                  95
Phe Val Asn Gly Thr Val Thr Gln Gly Asp Gln Arg Val Ser Met Pro
            100                 105                 110
Tyr Ala Ser Lys Gly Leu Tyr Leu Glu Thr  *
            115                 120     122
```

```
<210> 1262
<211> 737
<212> PRT
<213> Homo sapiens
```

```
<400> 1262
Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1           5                   10                  15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
            20                  25                  30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
        35                  40                  45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
    50                  55                  60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
65                  70                  75                  80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
            85                  90                  95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
            100                 105                 110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
            115                 120                 125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
    130                 135                 140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp
145                 150                 155                 160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
            165                 170                 175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
            180                 185                 190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
            195                 200                 205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
            210                 215                 220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
225                 230                 235                 240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
            245                 250                 255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile
```

```
                260                 265                 270
Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr
            275                 280                 285
Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly
        290                 295                 300
Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn
305                 310                 315                 320
Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile
            325                 330                 335
Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile
            340                 345                 350
Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr
        355                 360                 365
Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly
    370                 375                 380
Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser
385                 390                 395                 400
Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
            405                 410                 415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
            420                 425                 430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
        435                 440                 445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
    450                 455                 460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
465                 470                 475                 480
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
            485                 490                 495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
        500                 505                 510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
        515                 520                 525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
    530                 535                 540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
545                 550                 555                 560
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
            565                 570                 575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
            580                 585                 590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
        595                 600                 605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
    610                 615                 620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
625                 630                 635                 640
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
            645                 650                 655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
        660                 665                 670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
    675                 680                 685
Thr Arg Pro Gly Leu Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
    690                 695                 700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
705                 710                 715                 720
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
            725                 730                 735 736
```

*

```
<210> 1263
<211> 48
<212> PRT
<213> Homo sapiens


<400> 1263
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
1               5                   10                  15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
            20                  25                  30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg  *
            35                  40                  45  47


<210> 1264
<211> 61
<212> PRT
<213> Homo sapiens


<400> 1264
Met Met Tyr Ile Leu Phe Leu Gln Ala Phe Ile Leu Asp Tyr Tyr Gln
1               5                   10                  15
Tyr Phe Leu Gly Leu Asn Cys Val Tyr Ser Tyr Gln Ser Lys Lys Asp
            20                  25                  30
Phe Ser Gln Ile Trp Ser Gln Gly Trp Phe Ala Leu Leu Trp Ile Leu
            35                  40                  45
Cys Leu Ser Arg Ile Leu Glu Ser Phe Phe Phe Leu  *
    50                  55                  60


<210> 1265
<211> 58
<212> PRT
<213> Homo sapiens


<400> 1265
Met Val Gly Phe Leu Cys Cys Phe Tyr Leu Phe Gln Leu Leu Gly Pro
1               5                   10                  15
Gly Leu Leu Cys Leu Pro Lys Ala Val Leu Ser Phe Leu Gly Leu Leu
            20                  25                  30
Glu Ala Ala His His Leu Leu Val Lys Gly Phe Leu Leu Pro Val Leu
            35                  40                  45
Asp Leu Pro Gln Val Ile Val His Gln  *
    50                  55          57


<210> 1266
<211> 148
```

```
<212> PRT
<213> Homo sapiens


<400> 1266
Met Ala Leu Gln Leu Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala
1               5                   10                  15
Gly Ala Ser Leu Arg Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys
            20                  25                  30
Glu Leu Asn His Leu Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu
        35                  40                  45
Gly Ala Val Asn Ala Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu
    50                  55                  60
Gln Gln Val Ala Thr Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro
65                  70                  75                  80
Pro Ile Glu Ala Ser Gln Cys His Glu Ala Glu Met Thr Asp Asn Val
                85                  90                  95
Asn Gln Leu Leu Leu Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys
            100                 105                 110
Gly Gln Leu Leu Lys Gly Ile Leu Arg Ser Ala Arg Pro Glu Gln His
            115                 120                 125
Leu Pro Pro Pro Val Leu Arg Gly Arg Gln Arg Gly Glu Val Phe Arg
    130                 135                 140
Gly Gln Gln   *
145       147




<210> 1267
<211> 227
<212> PRT
<213> Homo sapiens


<400> 1267
Met Arg Trp Leu Trp Pro Leu Ala Val Ser Leu Ala Val Ile Leu Ala
1               5                   10                  15
Val Gly Leu Ser Arg Val Ser Gly Gly Ala Pro Leu His Leu Gly Arg
            20                  25                  30
His Arg Ala Glu Thr Gln Glu Gln Gln Ser Arg Ser Lys Arg Gly Thr
        35                  40                  45
Glu Asp Glu Glu Ala Lys Gly Val Gln Gln Tyr Val Pro Glu Glu Trp
    50                  55                  60
Ala Glu Tyr Pro Arg Pro Ile His Pro Ala Gly Leu Gln Pro Thr Lys
65                  70                  75                  80
Pro Leu Val Ala Thr Ser Pro Asn Pro Asp Lys Asp Gly Gly Thr Pro
                85                  90                  95
Asp Ser Gly Gln Glu Leu Arg Gly Asn Leu Thr Gly Ala Pro Gly Gln
            100                 105                 110
Arg Leu Gln Ile Gln Asn Pro Leu Tyr Pro Val Thr Glu Ser Ser Tyr
    115                 120                 125
Ser Ala Tyr Ala Ile Met Leu Leu Ala Leu Val Glu Phe Ala Ala Gly
    130                 135                 140
Ile Val Gly Asn Leu Ser Val Met Cys Ile Ala Trp His Ser Tyr Tyr
145                 150                 155                 160
Leu Lys Ser Ala Trp Asn Ser Ile Leu Ala Ser Leu Ala Leu Trp Asp
                165                 170                 175
Phe Leu Val Leu Phe Phe Cys Leu Pro Ile Val Ile Leu Asn Glu Ile
            180                 185                 190
```

```
Thr Lys Gln Arg Leu Leu Gly Asp Ala Pro Cys Pro Cys Arg Ala Leu
        195                 200             205
His Gly Gly Leu Leu Ser Gly Ser His Asp Phe Gln Pro Leu Cys Pro
    210                 215                 220
Gly His  *
225 226
```

```
        <210> 1268
        <211> 983
        <212> PRT
        <213> Homo sapiens


        <400> 1268
Met Leu Gly Asn Val Leu Leu Leu Cys Phe Phe Val Phe Phe Ile Phe
1               5                   10                  15
Gly Ile Val Gly Val Gln Leu Trp Ala Gly Leu Leu Arg Asn Arg Cys
            20                  25                  30
Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val Asp Leu Glu Arg
        35                  40                  45
Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe Ile Cys Ser Gln
    50                  55                  60
Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val Pro Thr Leu Arg
65              70                  75                  80
Gly Asp Gly Gly Gly Pro Pro Cys Gly Leu Asp Tyr Glu Ala Tyr
            85                  90                  95
Asn Ser Ser Ser Asn Thr Thr Cys Val Asn Trp Asn Gln Tyr Tyr Thr
        100                 105                 110
Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly Ala Ile Asn Phe
        115                 120                 125
Asp Asn Ile Gly Tyr Ala Trp Ile Ala Ile Phe Gln Val Ile Thr Leu
130                 135                 140
Glu Gly Trp Val Asp Ile Met Tyr Phe Val Met Asp Ala His Ser Phe
145                 150                 155                 160
Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val Gly Ser Phe Phe
                165                 170                 175
Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln Phe Ser Glu Thr
        180                 185                 190
Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg Val Arg Phe Leu
        195                 200                 205
Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro Gly Ser Cys Tyr
    210                 215                 220
Glu Glu Leu Leu Lys Tyr Leu Val Tyr Ile Leu Arg Lys Ala Ala Arg
225                 230                 235                 240
Arg Leu Ala Gln Val Ser Arg Ala Ala Gly Val Arg Val Gly Leu Leu
            245                 250                 255
Ser Ser Pro Ala Pro Leu Gly Gly Gln Glu Thr Gln Pro Ser Ser Ser
            260                 265                 270
Cys Ser Arg Ser His Arg Arg Leu Ser Val His His Leu Val His His
        275                 280                 285
His His His His His His Tyr His Leu Gly Asn Gly Thr Leu Arg
    290                 295                 300
Ala Pro Arg Ala Ser Pro Glu Ile Gln Asp Arg Asp Ala Asn Gly Ser
305                 310                 315                 320
Arg Arg Leu Met Leu Pro Pro Pro Ser Thr Pro Ala Leu Ser Gly Ala
                325                 330                 335
Pro Pro Gly Gly Ala Glu Ser Val His Ser Phe Tyr His Ala Asp Cys
```

```
            340                     345                     350
His Leu Glu Pro Val Arg Cys Gln Ala Pro Pro Pro Arg Ser Pro Ser
            355                     360                     365
Glu Ala Ser Gly Arg Thr Val Gly Ser Gly Lys Val Tyr Pro Thr Val
            370                     375                     380
His Thr Ser Pro Pro Pro Glu Thr Leu Lys Glu Lys Ala Leu Val Glu
385                     390                     395                     400
Val Ala Ala Ser Ser Gly Pro Pro Thr Leu Thr Ser Leu Asn Ile Pro
                405                     410                     415
Pro Gly Pro Tyr Ser Ser Met His Lys Leu Leu Glu Thr Gln Ser Thr
                420                     425                     430
Gly Ala Cys Gln Ser Ser Cys Lys Ile Ser Ser Pro Cys Leu Lys Ala
            435                     440                     445
Asp Ser Gly Ala Cys Gly Pro Asp Ser Cys Pro Tyr Cys Ala Arg Ala
    450                     455                     460
Gly Ala Gly Glu Val Glu Leu Ala Asp Arg Glu Met Pro Asp Ser Asp
465                     470                     475                     480
Ser Glu Ala Val Tyr Glu Phe Thr Gln Asp Ala Gln His Ser Asp Leu
                485                     490                     495
Arg Asp Pro His Ser Arg Arg Gln Arg Ser Leu Gly Pro Asp Ala Glu
            500                     505                     510
Pro Ser Ser Val Leu Ala Phe Trp Arg Leu Ile Cys Asp Thr Phe Arg
            515                     520                     525
Lys Ile Val Asp Ser Lys Tyr Phe Gly Arg Gly Ile Met Ile Ala Ile
    530                     535                     540
Leu Val Asn Thr Leu Ser Met Gly Ile Glu Tyr His Glu Gln Pro Glu
545                     550                     555                     560
Glu Leu Thr Asn Ala Leu Glu Ile Ser Asn Ile Val Phe Thr Ser Leu
                565                     570                     575
Phe Ala Leu Glu Met Leu Leu Lys Leu Leu Val Tyr Gly Pro Phe Gly
            580                     585                     590
Tyr Ile Lys Asn Pro Tyr Asn Ile Phe Asp Gly Val Ile Val Val Ile
    595                     600                     605
Ser Val Trp Glu Ile Val Gly Gln Gln Gly Gly Gly Leu Ser Val Leu
    610                     615                     620
Arg Thr Phe Arg Leu Met Arg Val Leu Lys Leu Val Arg Phe Leu Pro
625                     630                     635                     640
Ala Leu Gln Arg Gln Leu Val Val Leu Met Lys Thr Met Asp Asn Val
            645                     650                     655
Ala Thr Phe Cys Met Leu Leu Met Leu Phe Ile Phe Ile Phe Ser Ile
            660                     665                     670
Leu Gly Met His Leu Phe Gly Cys Lys Phe Ala Ser Glu Arg Asp Gly
            675                     680                     685
Asp Thr Leu Pro Asp Arg Lys Asn Phe Asp Ser Leu Leu Trp Ala Ile
    690                     695                     700
Val Thr Val Phe Gln Ile Leu Thr Gln Glu Asp Trp Asn Lys Val Leu
705                     710                     715                     720
Tyr Asn Gly Met Ala Ser Thr Ser Ser Trp Ala Ala Leu Tyr Phe Ile
                725                     730                     735
Ala Leu Met Thr Phe Gly Asn Tyr Val Leu Phe Asn Leu Leu Val Ala
            740                     745                     750
Ile Leu Val Glu Gly Phe Gln Ala Glu Gly Asp Ala Asn Lys Ser Glu
            755                     760                     765
Ser Glu Pro Asp Phe Phe Ser Pro Ser Leu Asp Gly Asp Gly Asp Arg
    770                     775                     780
Lys Lys Cys Leu Ala Leu Val Ser Leu Gly Glu His Pro Glu Leu Arg
785                     790                     795                     800
Lys Ser Leu Leu Pro Pro Leu Ile Ile His Thr Ala Ala Thr Pro Met
                805                     810                     815
```

727

```
Ser Leu Pro Lys Ser Thr Ser Thr Gly Leu Gly Glu Ala Leu Gly Pro
            820                 825                 830
Ala Ser Arg Arg Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala
            835                 840                 845
His Glu Met Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro
    850                 855                 860
Trp Ser Ala Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser
865             870                 875                 880
Leu Gly Arg Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg
            885                 890                 895
Arg Ser Leu Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu
            900                 905                 910
Ser Ser Glu Glu Glu Arg Ala Ser Pro Ala Gly Ser Asp His Arg His
            915                 920                 925
Arg Gly Ser Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp
    930                 935                 940
Thr Leu Gln Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Gly Ser
945             950                 955                 960
Ala Ser Glu His Gln Gly Leu Gln Trp Gln Val Gly Phe Arg Ala Pro
            965                 970                 975
Gly Pro Gly Pro Ala Ala  *
            980     982
```

```
<210> 1269
<211> 708
<212> PRT
<213> Homo sapiens


<400> 1269
Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
1               5                   10                  15
Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
            20                  25                  30
Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
        35                  40                  45
Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
    50                  55                  60
Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
65              70                  75                  80
Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
            85                  90                  95
Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
            100                 105                 110
Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
    115                 120                 125
Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
    130                 135                 140
Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
145             150                 155                 160
Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
            165                 170                 175
Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
            180                 185                 190
Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
    195                 200                 205
Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
```

728

```
              210                   215                   220
Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
225                   230                   235                   240
Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
                  245                   250                   255
Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
                  260                   265                   270
Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
                  275                   280                   285
Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
        290                   295                   300
His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser
305                   310                   315                   320
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp
                  325                   330                   335
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp
                  340                   345                   350
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met
                  355                   360                   365
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg
        370                   375                   380
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val
385                   390                   395                   400
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys
                  405                   410                   415
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg
                  420                   425                   430
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe
        435                   440                   445
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His
        450                   455                   460
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg
465                   470                   475                   480
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His
                  485                   490                   495
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu
                  500                   505                   510
Ser Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu
                  515                   520                   525
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu
        530                   535                   540
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg
545                   550                   555                   560
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys
                  565                   570                   575
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys
                  580                   585                   590
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser
                  595                   600                   605
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr
        610                   615                   620
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu
625                   630                   635                   640
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu
                  645                   650                   655
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln
                  660                   665                   670
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu
        675                   680                   685
```

729

```
Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
    690                 695             700
Ser Arg Leu  *
705     707
```

```
<210> 1270
<211> 93
<212> PRT
<213> Homo sapiens


<400> 1270
Met Leu Gln Ala Ala Leu Trp Cys Gly Ile Gly Leu Tyr Leu Val Thr
1               5               10              15
Leu Arg Leu Gly Val Glu Val Thr Pro Glu Ser Gln His Phe Gly Arg
        20              25              30
Pro Arg Arg Ala Asp His Leu Arg Pro Gly Gly Arg Gly Gln Ser Gly
        35              40              45
Gln His Gly Glu Thr Pro Ser Leu Leu Glu Ile Gln Lys Ile Ser Trp
    50              55              60
Met Trp Trp His Ile Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala
65                  70              75                  80
Gly Glu Ser Leu Glu Arg Gly Arg Trp Arg Leu Gln  *
                85              90      92
```

```
<210> 1271
<211> 648
<212> PRT
<213> Homo sapiens


<400> 1271
Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
1               5               10              15
Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
            20              25              30
Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
        35              40              45
His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
    50              55              60
Gly Met Arg Asp His Pro Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn
65                  70              75                  80
Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr
            85              90                  95
Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu
            100             105             110
Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp
        115             120             125
His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp
    130             135             140
Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr
145             150             155             160
Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg
            165             170             175
Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu
```

730

```
                    180                 185                 190
Glu Glu Lys Ser Arg Val Lys Cys Asp Gln Tyr Trp Pro Ala Arg Gly
            195                 200                 205
Thr Glu Thr Cys Gly Leu Ile Gln Val Thr Leu Leu Asp Thr Val Glu
        210                 215                 220
Leu Ala Thr Tyr Thr Val Arg Thr Phe Ala Leu His Lys Ser Gly Ser
225                 230                 235                 240
Ser Glu Lys Arg Glu Leu Arg Gln Phe Gln Phe Met Ala Trp Pro Asp
                245                 250                 255
His Gly Val Pro Glu Tyr Pro Thr Pro Ile Leu Ala Phe Leu Arg Arg
                260                 265                 270
Val Lys Ala Cys Asn Pro Leu Asp Ala Gly Pro Met Val Val His Cys
            275                 280                 285
Ser Ala Gly Val Gly Arg Thr Gly Cys Phe Ile Val Ile Asp Ala Met
    290                 295                 300
Leu Glu Arg Met Lys His Glu Lys Thr Val Asp Ile Tyr Gly His Val
305                 310                 315                 320
Thr Cys Met Arg Ser Gln Arg Asn Tyr Met Val Gln Thr Glu Asp Gln
                325                 330                 335
Tyr Val Phe Ile His Glu Ala Leu Leu Glu Ala Ala Thr Cys Gly His
                340                 345                 350
Thr Glu Val Pro Ala Arg Asn Leu Tyr Ala His Ile Gln Lys Leu Gly
            355                 360                 365
Gln Val Pro Pro Gly Glu Ser Val Thr Ala Met Glu Leu Glu Phe Lys
        370                 375                 380
Leu Leu Ala Ser Ser Lys Ala His Thr Ser Arg Phe Ile Ser Ala Asn
385                 390                 395                 400
Leu Pro Cys Asn Lys Phe Lys Asn Arg Leu Val Asn Ile Met Pro Tyr
                405                 410                 415
Glu Leu Thr Arg Val Cys Leu Gln Pro Ile Arg Gly Val Glu Gly Ser
            420                 425                 430
Asp Tyr Ile Asn Ala Ser Phe Leu Asp Gly Tyr Arg Gln Gln Lys Ala
        435                 440                 445
Tyr Ile Ala Thr Gln Gly Pro Leu Ala Glu Ser Thr Glu Asp Phe Trp
    450                 455                 460
Arg Met Leu Trp Glu His Asn Ser Thr Ile Ile Val Met Leu Thr Lys
465                 470                 475                 480
Leu Arg Glu Met Gly Arg Glu Lys Cys His Gln Tyr Trp Pro Ala Glu
                485                 490                 495
Arg Ser Ala Arg Tyr Gln Tyr Phe Val Val Asp Pro Met Ala Glu Tyr
                500                 505                 510
Asn Met Pro Gln Tyr Ile Leu Arg Glu Phe Lys Val Thr Asp Ala Arg
            515                 520                 525
Asp Gly Gln Ser Arg Thr Ile Arg Gln Phe Gln Phe Thr Asp Trp Pro
        530                 535                 540
Glu Gln Gly Val Pro Lys Thr Gly Glu Gly Phe Ile Asp Phe Ile Gly
545                 550                 555                 560
Gln Val His Lys Thr Lys Glu Gln Phe Gly Gln Asp Gly Pro Ile Thr
                565                 570                 575
Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Val Phe Ile Thr Leu
            580                 585                 590
Ser Ile Val Leu Glu Arg Met Arg Tyr Glu Gly Val Val Asp Met Phe
        595                 600                 605
Gln Thr Val Lys Thr Leu Arg Thr Gln Arg Pro Ala Met Val Gln Thr
    610                 615                 620
Glu Asp Gln Tyr Gln Leu Cys Tyr Arg Ala Ala Leu Glu Tyr Leu Gly
625                 630                 635                 640
Ser Phe Asp His Tyr Ala Thr  *
            645                 647
```

731

```
<210> 1272
<211> 109
<212> PRT
<213> Homo sapiens


<400> 1272
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1               5                  10                  15
Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
            20                  25                  30
Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
        35                  40                  45
Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
    50                  55                  60
Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65                  70                  75                  80
Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
                85                  90                  95
Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro   *
                100                 105         108
```

```
<210> 1273
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1273
Met Phe Phe Val Pro Ile Leu Leu Cys Leu Leu Leu Leu Ile Tyr Asn
 1               5                  10                  15
Ile Ile Cys Phe Asn Met Glu His Pro Thr Gly Ala Gly Leu Arg Cys
            20                  25                  30
Ser Leu Leu Ala Ala Pro Lys Glu Arg Gln His Arg His His Phe Val
        35                  40                  45
Phe His Ile Asp Thr Asn His   *
  ·50                  55
```

```
<210> 1274
<211> 188
<212> PRT
<213> Homo sapiens


<400> 1274
Met Asp Leu Ser Leu Leu Trp Val Leu Leu Pro Leu Val Thr Met Ala
 1               5                  10                  15
Trp Gly Gln Tyr Gly Asp Tyr Gly Tyr Pro Tyr Gln Gln Tyr His Asp
            20                  25                  30
Tyr Ser Asp Asp Gly Trp Val Asn Leu Asn Arg Gln Gly Phe Ser Tyr
        35                  40                  45
Gln Cys Pro Gln Gly Gln Val Ile Val Ala Val Arg Ser Ile Phe Ser
```

```
        50                    55                    60
Lys Lys Glu Gly Ser Asp Arg Gln Trp Asn Tyr Ala Cys Met Pro Thr
65                    70                    75                    80
Pro Gln Ser Leu Gly Glu Pro Thr Glu Cys Trp Trp Glu Glu Ile Asn
                85                    90                    95
Arg Ala Gly Met Glu Trp Tyr Gln Thr Cys Ser Asn Asn Gly Leu Val
               100                   105                   110
Ala Gly Phe Gln Ser Arg Tyr Phe Glu Ser Val Leu Asp Arg Glu Trp
          115                   120                   125
Gln Phe Tyr Cys Cys Arg Tyr Ser Lys Arg Cys Pro Tyr Ser Cys Trp
         130                   135                   140
Leu Thr Thr Glu Tyr Pro Gly His Tyr Gly Glu Glu Met Asp Met Ile
145                   150                   155                   160
Ser Tyr Asn Tyr Asp Tyr Tyr Ile Arg Gly Ala Thr Thr His Phe Leu
               165                   170                   175
Cys Ser Gly Lys Gly Ser Pro Ser Gly Ser Ser  *
               180                   185   187
```

```
        <210> 1275
        <211> 81
        <212> PRT
        <213> Homo sapiens


        <400> 1275
Met Val Ala Leu Thr Ile Gln Thr Trp His Trp Leu Met Thr Val Ala
1                   5                    10                   15
Glu Leu Leu Ser Leu Ala Cys Tyr Ile Ala Ser Leu Val Phe Leu His
               20                    25                   30
Glu Phe Ile Asp Val Tyr Phe Ile Ala Thr Leu Ser Phe Leu Trp Lys
          35                    40                   45
Val Ser Val Ile Thr Leu Val Ser Cys Leu Pro Leu Tyr Val Leu Lys
          50                    55                   60
Tyr Leu Arg Arg Arg Phe Ser Pro Pro Ser Tyr Ser Lys Leu Thr Ser
65                    70                    75                   80
 *
```

```
        <210> 1276
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1276
Met Leu Asp Leu Val Ala Leu Leu Tyr Gln Ala Val Leu Leu Pro Ala
1                   5                    10                   15
Ile Leu Leu Leu Pro Leu Cys Gln Leu Glu Met Phe Leu Met Leu Gln
               20                    25                   30
Leu Asn Arg Gln Ser Leu Lys Lys Lys Tyr Leu Ile Leu  *
          35                    40                   45


        <210> 1277
```

733

```
<211> 431
<212> PRT
<213> Homo sapiens


<400> 1277
Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
1               5                   10                  15
Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
            20                  25                  30
Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
        35                  40                  45
Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
    50                  55                  60
Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
65                  70                  75                  80
Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
                85                  90                  95
Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
            100                 105                 110
Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
        115                 120                 125
Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
        130                 135                 140
Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
145                 150                 155                 160
Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
                165                 170                 175
Leu Ala Gly Phe Ala Pro Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys
            180                 185                 190
Ile Asn Thr Asp Glu Ile Met Thr Ser Leu Lys Ser Val Asn Gly Gln
        195                 200                 205
Ile Glu Ser Leu Ile Ser Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg
    210                 215                 220
Asn Cys Arg Asp Leu Lys Phe Cys His Pro Glu Leu Lys Ser Gly Glu
225                 230                 235                 240
Tyr Trp Val Asp Pro Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val
                245                 250                 255
Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu
            260                 265                 270
Asn Val Pro Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys
        275                 280                 285
His Val Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr
        290                 295                 300
Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
305                 310                 315                 320
Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His Cys
                325                 330                 335
Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val Lys Lys
            340                 345                 350
Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly
        355                 360                 365
Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly Cys Thr Lys His
    370                 375                 380
Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala
385                 390                 395                 400
Val Arg Leu Pro Ile Val Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro
                405                 410                 415
Asp Gln Glu Phe Gly Val Asp Val Gly Pro Val Cys Phe Leu   *
```

<pre>
          420   425   430
</pre>

```
<210> 1278
<211> 53
<212> PRT
<213> Homo sapiens


<400> 1278
Met Leu Leu Tyr Val Phe Lys Phe Leu Gly Leu Phe Gln Phe Phe His
1                5                   10                  15
Ser Phe Cys Thr Ala Tyr Gly Pro Pro Gly Gly Cys Gly Asp Ser Gly
            20                  25                  30
Glu Glu Thr Ser Leu Phe Phe Glu Gln Leu Asp Pro Ala Phe Trp Leu
        35                  40                  45
Ala Asn Cys Ser  *
    50      52



<210> 1279
<211> 73
<212> PRT
<213> Homo sapiens


<400> 1279
Met Leu Gly Ser Ile Cys Asn Val Met Leu Leu Met Leu Ala Ala Ser
1                5                   10                  15
Ile Pro Glu Ile Cys Thr Phe Gly Pro Thr Lys Leu Ala Ala Asn Cys
            20                  25                  30
Asn Trp Met Pro Ser Arg Val Ala Arg Leu Pro Ser Val Arg Asp Thr
        35                  40                  45
Val Arg Ser Pro Pro Ala Asp Thr Glu Ala Gly Arg Ile Ala Trp Pro
    50                  55                  60
Thr Ser Pro Gly Cys Ser Arg Phe  *
65              70      72



<210> 1280
<211> 51
<212> PRT
<213> Homo sapiens


<400> 1280
Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro Val Leu Asp Val
1                5                   10                  15
His Thr His Leu Gly Cys Ile Ile Cys Val Phe Asp Val Ala Leu Ser
            20                  25                  30
Arg Glu Leu Ala Leu Leu Cys Arg Lys Ser Asn Trp Trp Val Ile Asn
        35                  40                  45
Trp Leu  *
    50
```

```
<210> 1281
<211> 144
<212> PRT
<213> Homo sapiens


<400> 1281
Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
1               5                   10                  15
Leu Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
            20                  25                  30
Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
            35                  40                  45
Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile
        50                  55                  60
Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
65                  70                  75                  80
Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
                85                  90                  95
Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
            100                 105                 110
Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
            115                 120                 125
Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Gly His Gln Asp  *
        130                 135                 140     143



<210> 1282
<211> 267
<212> PRT
<213> Homo sapiens


<400> 1282
Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp Gln
1               5                   10                  15
Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala Pro Thr
            20                  25                  30
Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val Ala Glu Gly
            35                  40                  45
Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu Asn Leu Tyr Ser
        50                  55                  60
Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro Asn Gln Leu Ile Ala
65                  70                  75                  80
Ala Tyr Val Ile Asp Asp Thr His Val Arg Thr Pro Gly Pro Ala Tyr
                85                  90                  95
Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly Asp Leu His Phe Gln Asn
            100                 105                 110
Val Thr Leu Glu Asp Thr Gly Tyr Tyr Asn Leu Gln Val Thr Tyr Arg
            115                 120                 125
Asn Ser Gln Ile Glu Gln Ala Ser His His Leu Arg Val Tyr Gln Val
        130                 135                 140
Ser Gly Leu Thr Pro Pro Ser Lys Pro Ala Ala Pro Gln Ser Pro Arg
145                 150                 155                 160
Arg Ala Pro Gly Val Leu Thr Cys His Thr Asn Asn Thr Gly Thr Ser
                165                 170                 175
Phe Gln Trp Ile Phe Asn Asn Gln Arg Leu Gln Val Thr Lys Arg Met
```

```
                180                    185                    190
Lys Leu Ser Trp Phe Asn His Met Leu Thr Ile Asp Pro Ile Arg Gln
            195                    200                    205
Glu Asp Ala Gly Glu Tyr Gln Cys Glu Val Ser Asn Pro Val Ser Ser
        210                    215                    220
Asn Arg Ser Asp Pro Leu Lys Leu Thr Val Lys Ser Asp Asp Asn Thr
225             .           230                    235                    240
Leu Gly Ile Leu Ile Gly Val Leu Val Gly Ser Leu Leu Val Ala Ala
                245                    250                    255
Leu Val Cys Phe Leu Leu Leu Arg Lys Thr Gly
                260                    265     267
```

```
        <210> 1283
        <211> 262
        <212> PRT
        <213> Homo sapiens,
```

```
        <400> 1283
Met Leu Val Leu Leu Val Leu Arg Val Ser Leu Ala Ala Leu Val Lys
1                   5                    10                     15
Met Glu Leu Leu Val Arg Trp Ala Pro Val Ala Cys Leu Val Arg Glu
            20                     25                     30
Val Ala Leu Glu Pro Leu Ala Leu Leu Val Leu Val Glu Met Met Val
        35                     40                     45
Leu Leu Val Leu Pro Gly Pro Leu Val Pro Pro Ala Pro Leu Val Leu
        50                     55                     60
Leu Ala Ser Leu Val Leu Leu Val Leu Arg Val Lys Leu Val Pro Lys
65                     70                     75                     80
Gly Pro Glu Ala Leu Lys Val Pro Arg Val Cys Val Val Ser Leu Ala
                85                     90                     95
Pro Leu Ala Leu Leu Val Leu Leu Ala Leu Leu Glu Thr Leu Val Leu
            100                    105                    110
Arg Glu Ser Leu Val Leu Lys Val Pro Met Val Leu Leu Val Leu Leu
        115                    120                    125
Val Leu Leu Ala Ser Leu Val Pro Glu Ala Pro Leu Asp Pro Arg Ala
        130                    135                    140
Pro Ala Ala Leu Leu Val Pro Arg Val Thr Ala Val Asn Leu Val Leu
145                    150                    155                    160
Leu Ala Ala Lys Glu Thr Leu Val Leu Arg Glu Ser Leu Ala Leu Leu
                165                    170                    175
Val Phe Lys Asp Pro Leu Ala Leu Leu Glu Arg Lys Glu Ser Glu Glu
            180                    185                    190
Leu Glu Val Asn Pro Asp Pro Leu Ala Cys Pro Asp Pro Leu Ala Ser
        195                    200                    205
Val Val Asp Leu Val Ala Val Val Ser Leu Ala Gln Met Val Leu Leu
        210                    215                    220
Val Pro Arg Val Pro Leu Val Asn Val Val Leu Leu Ala Leu Leu Ala
225                    230                    235                    240
Pro Lys Asp Leu Leu Val Lys Leu Val Val Pro Val Lys Leu Val Cys
                245                    250                    255
Leu Val Pro Arg Val    *
            260 261
```

```
        <210> 1284
```

                                               |

```
<211> 50
<212> PRT
<213> Homo sapiens


<400> 1284
Met Val Ile Leu Pro Leu Leu Leu Ile Thr Thr Pro Pro Met Thr
1               5                   10                  15
Phe Leu Ala Phe Leu Leu Thr Leu Ile Leu Ser Cys Lys Asn Cys Ser
            20                  25                  30
Lys Leu Ala Ala Ser Met Ile Arg Leu Leu Trp Gly Gly Cys Asn Gln
        35                  40                  45
Glu  *
 49




<210> 1285
<211> 323
<212> PRT
<213> Homo sapiens



<400> 1285
Met Leu Val Met Ala Pro Arg Thr Val Leu Leu Leu Leu Ser Ala Ala
1               5                   10                  15
Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
            20                  25                  30
Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser
        35                  40                  45
Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
    50                  55                  60
Ala Ser Pro Arg Glu Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly
 65                 70                  75                  80
Pro Glu Tyr Trp Asp Arg Asn Thr Gln Ile Tyr Lys Ala Gln Ala Gln
                85                  90                  95
Thr Asp Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser
            100                 105                 110
Glu Ala Gly Ser His Thr Leu Gln Ser Met Tyr Gly Cys Asp Val Gly
        115                 120                 125
Pro Asp Gly Arg Leu Leu Arg Gly His Asp Gln Tyr Ala Tyr Asp Gly
    130                 135                 140
Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala
145                 150                 155                 160
Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu
                165                 170                 175
Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Glu Cys Val Glu Trp Leu
            180                 185                 190
Arg Arg Tyr Leu Glu Asn Gly Lys Asp Lys Leu Glu Arg Ala Asp Pro
        195                 200                 205
Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr
    210                 215                 220
Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr
225                 230                 235                 240
Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu
                245                 250                 255
Thr Arg Pro Ala Gly Asp Arg Thr Phe Gln Lys Val Gly Gln Leu Trp
            260                 265                 270
Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His
```

```
          275                      280                    285
Val Gly Ala Ala Glu Ala Pro His Pro Ser Glu Met Gly Ser Gly Leu
    290                      295                    300
Pro Ser Ser Thr Val Pro His Arg Trp Ala Leu Val Leu Gly Leu Gly
305                      310                    315                    320
Cys Pro *
    322
```

```
    <210> 1286
    <211> 306
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1286
Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
    1                5                    10                   15
Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
            20                   25                   30
Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
            35                   40                   45
Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
        50                   55                   60
Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
65                   70                   75                   80
Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
                85                   90                   95
Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
            100                  105                  110
Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn
    115                  120                  125
Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
    130                  135                  140
Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
145                  150                  155                  160
Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
                165                  170                  175
Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
            180                  185                  190
Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
            195                  200                  205
Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
    210                  215                  220
Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
225                  230                  235                  240
Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
                245                  250                  255
Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
            260                  265                  270
Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
    275                  280                  285
Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Pro Leu Ala Thr Ala Gly
    290                  295                  300
Pro *
305
```

```
<210> 1287
<211> 299
<212> PRT
<213> Homo sapiens


<400> 1287
Met Gly Arg Trp Ala Leu Asp Val Ala Phe Leu Trp Lys Ala Val Leu
1               5                   10                  15
Thr Leu Gly Leu Val Leu Leu Tyr Tyr Cys Phe Ser Ile Gly Ile Thr
            20                  25                  30
Phe Tyr Asn Lys Trp Leu Thr Lys Ser Phe His Phe Pro Leu Phe Met
        35                  40                  45
Thr Met Leu His Leu Ala Val Ile Phe Leu Phe Ser Ala Leu Ser Arg
    50                  55                  60
Ala Leu Val Gln Cys Ser Ser His Arg Ala Arg Val Val Leu Ser Trp
65                  70                  75                  80
Ala Asp Tyr Leu Arg Arg Val Ala Pro Thr Ala Leu Ala Thr Ala Leu
                85                  90                  95
Asp Val Gly Leu Ser Asn Trp Ser Phe Leu Tyr Val Thr Val Ser Leu
            100                 105                 110
Tyr Thr Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser
        115                 120                 125
Leu Ile Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val
    130                 135                 140
Leu Leu Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln
145                 150                 155                 160
Phe Asn Val Glu Gly Phe Ala Leu Val Leu Gly Ala Ser Phe Ile Gly
                165                 170                 175
Gly Ile Arg Trp Thr Leu Thr Gln Met Leu Leu Gln Lys Ala Glu Leu
            180                 185                 190
Gly Leu Gln Asn Pro Ile Asp Thr Met Phe His Leu Gln Pro Leu Met
        195                 200                 205
Phe Leu Gly Leu Phe Pro Leu Phe Ala Val Phe Glu Gly Leu His Leu
    210                 215                 220
Ser Thr Ser Glu Lys Ile Phe Arg Phe Gln Gly His Arg Ala Ala Pro
225                 230                 235                 240
Ala Gly Thr Trp Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val
                245                 250                 255
Trp Ala Ser Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu
            260                 265                 270
Ser Pro Leu Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln
        275                 280                 285
Leu Ile Cys Trp Ala Ile Arg Ser Ala Ser *
290                 295                 298



<210> 1288
<211> 161
<212> PRT
<213> Homo sapiens


<400> 1288
Met Glu Ser Ala Leu Pro Ala Ala Gly Phe Leu Tyr Trp Val Gly Ala
1               5                   10                  15
Gly Thr Val Ala Tyr Leu Ala Leu Arg Ile Ser Tyr Ser Leu Phe Thr
```

740

```
                    20                    25                    30
Ala Leu Arg Val Trp Gly Val Gly Asn Glu Ala Gly Val Gly Pro Gly
        35                    40                    45
Leu Gly Glu Trp Ala Val Val Thr Gly Ser Thr Asp Gly Ile Gly Lys
    50                    55                    60
Ser Tyr Ala Glu Glu Leu Ala Lys His Gly Met Lys Val Val Leu Ile
65                    70                    75                    80
Ser Arg Ser Lys Asp Lys Leu Asp Gln Val Ser Ser Glu Ile Lys Glu
                85                    90                    95
Lys Phe Lys Val Glu Thr Arg Thr Ile Ala Val Asp Phe Ala Ser Glu
                100                   105                   110
Asp Ile Tyr Asp Lys Ile Lys Thr Gly Leu Ala Gly Leu Glu Ile Gly
        115                   120                   125
Ile Leu Val Asn Asn Val Gly Met Ser Tyr Glu Tyr Pro Glu Tyr Phe
    130                   135                   140
Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Asn Asp Lys Tyr
145                   150                   155                   160
*
```

```
        <210> 1289
        <211> 46
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1289
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
1                   5                    10                   15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
                20                    25                    30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
            35                    40                    45
```

```
        <210> 1290
        <211> 453
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1290
Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu Ser
1                   5                    10                   15
Leu Ser Thr Thr Phe Ser Leu Gln Pro Asp Gln Gln Lys Val Leu Leu
                20                    25                    30
Val Ser Phe Asp Gly Phe Arg Trp Asp Tyr Leu Tyr Lys Val Pro Thr
        35                    40                    45
Pro His Phe His Tyr Ile Met Lys Tyr Gly Val His Val Lys Gln Val
    50                    55                    60
Thr Asn Val Phe Ile Thr Lys Thr Tyr Pro Asn His Tyr Thr Leu Val
65                    70                    75                    80
Thr Gly Leu Phe Ala Glu Asn His Gly Ile Val Ala Asn Asp Met Phe
                85                    90                    95
Asp Pro Ile Arg Asn Lys Ser Phe Ser Leu Asp His Met Asn Ile Tyr
            100                   105                   110
```

741

```
Asp Ser Lys Phe Trp Glu Glu Ala Thr Pro Ile Trp Ile Thr Asn Gln
        115                 120             125
Arg Ala Gly His Thr Ser Gly Ala Ala Met Trp Pro Gly Thr Asp Val
    130             135                 140
Lys Ile His Lys Arg Phe Pro Thr His Tyr Met Pro Tyr Asn Glu Ser
145             150                 155                 160
Val Ser Phe Glu Asp Arg Val Ala Lys Ile Ile Glu Trp Phe Thr Ser
            165                 170                 175
Lys Glu Pro Ile Asn Leu Gly Leu Leu Tyr Trp Glu Asp Pro Asp Asp
            180                 185                 190
Met Gly His His Leu Gly Pro Asp Ser Pro Leu Met Gly Pro Val Ile
        195                 200                 205
Ser Asp Ile Asp Lys Lys Leu Gly Tyr Leu Ile Gln Met Leu Lys Lys
    210                 215                 220
Ala Lys Leu Trp Asn Thr Leu Asn Leu Ile Ile Thr Ser Asp His Gly
225             230                 235                 240
Met Thr Gln Cys Ser Glu Glu Arg Leu Ile Glu Leu Asp Gln Tyr Leu
            245                 250                 255
Asp Lys Asp His Tyr Thr Leu Ile Asp Gln Ser Pro Val Ala Ala Ile
            260                 265                 270
Leu Pro Lys Glu Gly Lys Phe Asp Glu Val Tyr Glu Ala Leu Thr His
    275                 280                 285
Ala His Pro Asn Leu Thr Val Tyr Lys Lys Glu Asp Val Pro Glu Arg
    290                 295                 300
Trp His Tyr Lys Tyr Asn Ser Arg Ile Gln Pro Ile Ile Ala Val Ala
305             310                 315                 320
Asp Glu Gly Trp His Ile Leu Gln Asn Lys Ser Asp Asp Phe Leu Leu
            325                 330                 335
Gly Asn His Gly Tyr His Asn Ala Leu Ala Asp Met His Pro Ile Phe
        340                 345                 350
Leu Ala His Gly Pro Ala Phe Arg Lys Asn Phe Ser Lys Glu Ala Met
        355                 360                 365
Asn Ser Thr Asp Leu Tyr Pro Leu Leu Cys His Leu Leu Asn Ile Thr
    370                 375                 380
Ala Met Pro His Asn Gly Ser Phe Trp Asn Val Gln Asp Leu Leu Asn
385             390                 395                 400
Ser Ala Met Pro Arg Val Val Pro Tyr Thr Gln Ser Thr Ile Leu Leu
            405                 410                 415
Pro Gly Ser Val Lys Pro Ala Glu Tyr Asp Gln Glu Gly Ser Tyr Pro
            420                 425                 430
Tyr Phe Ile Gly Val Ser Leu Gly Ser Ile Ile Val Ile Val Phe Phe
        435                 440                 445
Cys Asn Phe His    *
    450         452
```

```
<210> 1291
<211> 78
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(78)
<223> Xaa = any amino acid or nothing


<400> 1291
Met Leu Ser Val Thr Ala Phe Ile Leu Ala Glu Thr Val Leu Ala Ser
```

```
    1                    5                  10                    15
Gln Glu Val Gln Gly Gly Val Gln Val Arg Val Tyr Leu Met Asn Ala
                 20                  25                    30
Val Pro Asp Gly Leu Gln Gly Gly Ser Pro Val Gly Gly Leu Gly Leu
         35                  40                    45
Leu Leu Ala Pro Asp Asn Ser Gly His Arg Arg Ser Ser Cys Arg Ile
         50                  55                    60
Pro Ala Ala Arg Val Tyr Xaa Xaa Xaa Xaa Pro Arg Pro Pro
65                  70                    75        78
```

```
        <210> 1292
        <211> 416
        <212> PRT
        <213> Homo sapiens


        <400> 1292
Met Val Leu Trp Ile Leu Trp Arg Pro Phe Gly Phe Ser Gly Arg Phe
  1                    5                  10                    15
Leu Lys Leu Glu Ser His Ser Ile Thr Glu Ser Lys Ser Leu Ile Pro
                 20                  25                    30
Val Ala Trp Thr Ser Leu Thr Gln Met Leu Leu Glu Ala Pro Gly Ile
         35                  40                    45
Phe Leu Leu Gly Gln Arg Lys Arg Phe Ser Thr Met Pro Glu Thr Glu
         50                  55                    60
Thr His Glu Arg Glu Thr Glu Leu Phe Ser Pro Pro Ser Asp Val Arg
 65                  70                  75                    80
Gly Met Thr Lys Leu Asp Arg Thr Ala Phe Lys Lys Thr Val Asn Ile
                 85                  90                    95
Pro Val Leu Lys Val Arg Lys Glu Ile Val Ser Lys Leu Met Arg Ser
                100                 105                 110
Leu Lys Arg Ala Ala Leu Gln Arg Pro Gly Ile Arg Arg Val Ile Glu
         115                 120                 125
Asp Pro Glu Asp Lys Glu Ser Arg Leu Ile Met Leu Asp Pro Tyr Lys
         130                 135                 140
Ile Phe Thr His Asp Ser Phe Glu Lys Ala Glu Leu Ser Val Leu Glu
145                 150                 155                 160
Gln Leu Asn Val Ser Pro Gln Ile Ser Lys Tyr Asn Leu Glu Leu Thr
                165                 170                 175
Tyr Glu His Phe Lys Ser Glu Glu Ile Leu Arg Ala Val Leu Pro Glu
                180                 185                 190
Gly Gln Asp Val Thr Ser Gly Phe Ser Arg Ile Gly His Ile Ala His
         195                 200                 205
Leu Asn Leu Arg Asp His Gln Leu Pro Phe Lys His Leu Ile Gly Gln
         210                 215                 220
Val Met Ile Asp Lys Asn Pro Gly Ile Thr Ser Ala Val Asn Lys Ile
225                 230                 235                 240
Asn Asn Ile Asp Asn Met Tyr Arg Asn Phe Gln Met Glu Val Leu Ser
                245                 250                 255
Gly Glu Gln Asn Met Met Thr Lys Val Arg Glu Asn Asn Tyr Thr Tyr
                260                 265                 270
Glu Phe Asp Phe Ser Lys Val Tyr Trp Asn Pro Arg Leu Ser Thr Glu
         275                 280                 285
His Ser Arg Ile Thr Glu Leu Leu Lys Pro Gly Asp Val Leu Phe Asp
         290                 295                 300
Val Phe Ala Gly Val Gly Pro Phe Ala Ile Pro Val Ala Lys Lys Asn
305                 310                 315                 320
```

```
Cys Thr Val Phe Ala Asn Asp Leu Asn Pro Glu Ser His Lys Trp Leu
            325                 330                 335
Leu Tyr Asn Cys Lys Leu Asn Lys Val Asp Gln Lys Val Lys Val Phe
            340                 345                 350
Asn Leu Asp Gly Lys Asp Phe Leu Gln Gly Pro Val Lys Glu Glu Leu
            355                 360                 365
Met Gln Leu Leu Gly Leu Ser Lys Glu Arg Lys Pro Ser Val His Val
        370                 375                 380
Val Met Asn Leu Pro Ala Lys Ala Ile Glu Phe Leu Ser Ala Phe Lys
385                 390                 395                 400
Trp Leu Leu Asp Gly Gln Pro Met Pro Ala Val Ser Ser Phe Pro  *
                405                 410                 415
```

```
        <210> 1293
        <211> 113
        <212> PRT
        <213> Homo sapiens


        <400> 1293
Met Val Arg Pro Leu Leu Leu Leu Asn Leu His Phe His Leu Pro Ser
  1             5                 10                  15
Leu Val Ser Leu Ser Leu Ser Leu Leu Leu Ser Val Ser Leu Ser Leu
            20                  25                  30
Val Asn Ala Val Arg Leu Leu Arg Ala Ser Phe Cys Ser Trp Leu Ile
            35                  40                  45
Ala Lys Ser Leu Ile Thr Leu Trp Val Arg Pro Ser Gln Ile Gly Lys
        50                  55                  60
Leu Lys Ala Leu Ala Ser Ser Thr Thr Ser Met Ala Trp Glu Gly Leu
65                  70                  75                  80
Leu Asp Thr Phe Ala Leu Ser Ile Ser Ser Phe Ser Asn Ser Leu Leu
                85                  90                  95
Gly Ile Leu Leu Cys Phe Leu Lys Ser Pro Asn Ile Phe Gln Ala Ser
            100                 105                 110  112
  *
```

```
        <210> 1294
        <211> 57
        <212> PRT
        <213> Homo sapiens



        <400> 1294
Met Asp Phe Leu Met Leu Ala Val Cys Ala His Arg Leu Cys Phe Leu
  1             5                 10                  15
Tyr Leu Phe Ile Leu Tyr Glu Ser Lys Asn Lys Arg Glu Cys Glu Gln
            20                  25                  30
Phe Arg Arg Leu Gln Ile Tyr Leu Val Arg Leu Leu Ser Lys Arg Phe
        35                  40                  45
Pro Val Val Val Ile Pro Ala Val  *
    50                  55  56
```

<210> 1295
<211> 68
<212> PRT
<213> Homo sapiens

<400> 1295
Met Phe Leu Ser Leu Cys Leu Leu Ser Ala Ala Leu Thr Lys Ile Ser
1   5   10   15
Ser Lys Ile Leu Tyr Lys Pro Gly Thr Lys Val Thr Ser Leu Gln Phe
                20   25   30
Ile Pro Thr Ser Ser Ser Tyr Thr His Met Asn Cys Val Asn Gly Ser
            35   40   45
Thr Asp Pro Ile Tyr Val Ser Gly Arg Arg Arg Met Cys Ser Ser Cys
    50   55   60
Val Phe Ile *
65   67

<210> 1296
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1296
Met Trp Ser Ala His Pro Leu Ala Val Leu Ser Leu Lys Leu Thr Leu
1   5   10   15
Phe Ser Leu Thr Ser Asp Trp Leu Ser Ser Lys Asp Met Ala Ile Ser
                20   25   30
Leu Ala Phe Lys Ile Ser Gln Ile Leu Cys Ser Val Leu Ser Ala Pro
            35   40   45
Gly Lys Arg Leu Ile Ser Val Leu Trp Asn Thr Ser Ser Leu Lys Arg
    50   55   60
Ser *
65

<210> 1297
<211> 57
<212> PRT
<213> Homo sapiens

<400> 1297
Met Leu His Ser Gln Leu Leu Ala Val Ser Phe Arg Leu Ile Val Thr
1   5   10   15
Leu Pro Leu Ser Ile Gln Asp Trp Asp Asp Ala Glu Asn Met Lys Gly
                20   25   30
Leu Gln Tyr Ile Phe Asn Thr Leu Trp Ser Val Ser Ser Pro Val Ile
            35   40   45
Thr Ser Ile Leu Ser Ser Lys His *
    50   55 56

<210> 1298

745

```
<211> 235
<212> PRT
<213> Homo sapiens


<400> 1298
Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
1               5                   10                  15
Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
            20                  25                  30
Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
        35                  40                  45
Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
    50                  55                  60
Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
65                  70                  75                  80
Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
                85                  90                  95
Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
            100                 105                 110
Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
        115                 120                 125
Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
    130                 135                 140
Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
145                 150                 155                 160
Ala Leu Cys Pro Leu Tyr Thr Thr Pro Arg Thr Val Thr Gln Ala Pro
                165                 170                 175
Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
            180                 185                 190
Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
        195                 200                 205
Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
    210                 215                 220
Phe Ala Val Thr Leu Arg Ser Phe Val Pro  *
225                 230                 234


<210> 1299
<211> 64
<212> PRT
<213> Homo sapiens


<400> 1299
Met Arg Trp Lys Val Gln Val Asn Ser Leu Met Val Leu Pro Ser Leu
1               5                   10                  15
Thr Val Cys Tyr Ser Thr His Leu Ser Thr Gly Cys Arg His Ile Lys
            20                  25                  30
Val Asn Val Gln Val Leu Glu Asn Ile Gln Arg Ile Leu Asn Val Gln
        35                  40                  45
Asn Ser Glu Lys Gln Ile Tyr Ala Glu Cys Val Val Gly Ala Phe  *
    50                  55                  60                  63


<210> 1300
<211> 80
```

```
<212> PRT
<213> Homo sapiens


<400> 1300
Met Ala Ser Arg Ser Asn Tyr Leu Thr Glu Thr Leu Thr Pro Phe Pro
1               5                   10                  15
Ala Leu Leu Ser Leu Phe Met Leu Tyr Leu Ser His Thr Gly Phe Asp
            20                  25                  30
Asn Ile Ile Pro Thr Phe Pro Thr Lys Pro Ala Tyr Thr Leu His Arg
        35                  40                  45
Leu Leu Pro His Cys Pro Asp Ile His Ile Ala Tyr Ser Leu Ile Ser
    50                  55                  60
Ser His Leu Phe Ala Gln Gly Ala Ser Leu Ser Thr Arg Thr His  *
65                  70                  75                  79



<210> 1301
<211> 87
<212> PRT
<213> Homo sapiens


<400> 1301
Met Arg Phe Arg Ala Glu Pro Lys Ser Arg Pro Leu Pro Ala Leu Cys
1               5                   10                  15
His Val Leu Ile Ala Cys Ile Val Phe Arg Trp Ala Phe Ala Gln Pro
            20                  25                  30
Leu Pro Ser Ser Arg Ser Tyr Arg Ser Ser Gly Glu Phe Pro Arg Ser
            35                  40                  45
Pro Ser Phe Lys Lys Thr Lys Thr Pro Ser Trp Gly Glu Arg Arg Val
    50                  55                  60
Leu Leu Tyr Ser Arg Met Leu Arg Ala Asn Leu Arg Met Trp Arg Glu
65                  70                  75                  80
Tyr Trp Ser Gln Lys Ser Ile
                85      87



<210> 1302
<211> 143
<212> PRT
<213> Homo sapiens


<400> 1302
Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Cys Leu Leu Thr Leu
1               5                   10                  15
Gln Asn Ala Thr Thr Glu Thr Trp Glu Glu Leu Leu Ser Tyr Met Glu
            20                  25                  30
Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln
        35                  40                  45
Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr
    50                  55                  60
Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu
65                  70                  75                  80
Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg
                85          90                  95
```

```
Val Pro Gln Ala Gly Gly Gln His Ala Arg Gly Gln His Ala Met Gln
        100                 105             110
Phe Pro Ala Glu Leu Thr Arg Asp Ala Cys Lys Thr Arg Pro Arg Glu
        115                 120             125
Leu Arg Leu Ile Cys Ile Tyr Phe Ser Asn Thr His Phe Phe Lys
    130             135             140         143


    <210> 1303
    <211> 60
    <212> PRT
    <213> Homo sapiens


    <400> 1303
Met Ile Leu Leu Met Ser Ala Ala Ile Phe Cys Ser Ala Glu Val Phe
1               5               10              15
Thr Arg Gly Ser Phe Phe Ser Asp Met Leu Thr Leu Asp Arg Val Lys
            20              25              30
Ala Lys Gly Leu Gln Gly Glu Gly Ala Ala Ser Thr Cys Ala Leu Ala
        35              40              45
Ala Asp Ser Gln Gly Ser Gly Ala Ser Gly Thr Lys
    50              55              60


    <210> 1304
    <211> 56
    <212> PRT
    <213> Homo sapiens


    <400> 1304
Met Lys Met Met Phe Ile Ile Thr Asn Trp Leu Asn Tyr Tyr Phe Leu
1               5               10              15
Leu Phe Ser Pro Ser Asn Pro Gln Ile Gln Ser Ile Leu His Glu Val
            20              25              30
Ala Pro Leu Trp Phe Arg Thr Leu Tyr Thr Leu Leu Arg Gly Cys Ser
        35              40              45
Thr Trp Lys Gly Leu Ser Ser *
    50              55


    <210> 1305
    <211> 63
    <212> PRT
    <213> Homo sapiens


    <400> 1305
Met Asn Ile Ile Phe Ile Tyr Leu Ala Thr Ser Leu Ala Phe Leu Ile
1               5               10              15
Ile Asn Leu Ser Gln Leu Leu Phe Thr Glu Tyr Leu His Phe Arg Cys
            20              25              30
Cys Ser Lys Cys Ser Thr Cys Ile Asn Leu Leu Ser His His Glu Trp
        35              40              45
Glu Leu Leu Pro Ser Ser Tyr Arg Arg Gly Ser Arg Ser Pro *
```

```
          50                    55                    60      62
```

```
     <210> 1306
     <211> 138
     <212> PRT
     <213> Homo sapiens


     <400> 1306
Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
1                 5                 10                15
Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
            20                25                30
Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Leu Pro
        35                40                45
Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
    50                55                60
Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
65                70                75                80
Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Pro Asp Phe
            85                90                95
Tyr Pro Pro Ala Tyr Glu Glu Ser Leu Glu Val Glu Lys Gln Ser Cys
        100               105               110
Pro Ala Glu Arg Glu Ala Pro Arg His Ser Ser Thr Ser Ile Tyr Arg
        115               120               125
Asp Gly Pro Gly Ile Pro Gly Trp Lys  *
    130               135     137



     <210> 1307
     <211> 64
     <212> PRT
     <213> Homo sapiens


     <400> 1307
Met Met Ala Ile Lys Pro Thr Ile Leu Val Thr Gln Gly Leu Ile Leu
1                 5                 10                15
Cys Trp Lys Cys His Lys Met Ile Cys Ser Tyr Phe Asn Leu Gln Leu
            20                25                30
Glu Arg His Phe Leu Glu Thr Ile Gln Ser Asp Ser Phe Met Glu Lys
        35                40                45
Leu Thr Leu Thr Asp Leu Thr Ile Tyr Arg Ile His Val Ala Thr His
    50                55                60                64



     <210> 1308
     <211> 65
     <212> PRT
     <213> Homo sapiens


     <400> 1308
```

```
Met Pro Cys Ser Gly Ser Ser Val Gln Thr Phe Arg Pro Leu Leu Ile
1               5                   10                  15
Phe His Asn Val Thr Phe Phe Ile Leu Pro Val Lys Cys Phe Asn Ala
            20                  25                  30
Leu Ile Asn Val Leu Glu Arg Pro Phe Trp Gln Leu Leu Gly Glu Ile
            35                  40                  45
Gly Glu Glu Tyr Arg Gly Ser Glu Asp Trp Leu Gly Gly Ser Phe Arg
        50                  55                  60              64
    *
```

```
        <210> 1309
        <211> 75
        <212> PRT
        <213> Homo sapiens


        <400> 1309
Met Arg Ile Trp His Arg Trp Leu Leu Val Arg Ile Leu Phe Pro Ala
1               5                   10                  15
Pro Gly Leu Gln Thr Ala Thr Phe Ser Val Cys Phe His Val Ala Glu
            20                  25                  30
Ser Glu Leu Trp His Leu Leu Cys Phe Phe Phe Phe Leu Ala Leu Leu
        35                  40                  45
Pro Pro Arg Trp Lys Ala Arg Gly Pro Ile Trp Val His Gly Thr Leu
        50                  55                  60
Gly Phe Arg Val Gly Arg Asn Phe Leu Ala   *
65                  70                  74
```

```
        <210> 1310
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1310
Met Lys Leu Gly Asp Val Phe Val Lys Leu Leu Val Ser Leu Ala Gly
1               5                   10                  15
Glu Ile Leu Leu Ala Pro Leu Val Ser Ala Ser Gly Met Gly Pro Ala
            20                  25                  30
Gly Val Glu Ala Leu Glu Glu Val Ser Ala Leu Ser Val   *
            35                  40                  45
```

```
        <210> 1311
        <211> 105
        <212> PRT
        <213> Homo sapiens


        <400> 1311
Met Tyr Trp Val Thr Val Ile Thr Leu Ile Tyr Gly Tyr Tyr Ala Trp
1               5                   10                  15
Val Gly Phe Trp Pro Glu Ser Ile Pro Tyr Gln Asn Leu Gly Pro Leu
```

```
                20                        25                        30
Gly Pro Leu Thr Gln Tyr Leu Met Asp His His His Thr Leu Leu Cys
         35                        40                        45
Asn Gly Tyr Trp Leu Ala Trp Leu Ile His Val Gly Glu Ser Leu His
         50                        55                        60
Ala Ile Leu Leu Gly Glu Arg Lys Gly Ile Thr Ser Gly Arg Ser Gln
65                        70                        75                        80
Leu Leu Trp Leu Leu Gln Thr Leu Phe Phe Gly Ile Thr Thr Leu Thr
                        85                        90                        95
Ile Phe Asp Ala Tyr Lys Arg Lys Arg
                100                        105
```

```
        <210> 1312
        <211> 114
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1312
Met Lys Gly Lys Trp Cys Cys Ser Leu Leu Cys Gln Ser Pro Gln Val
1                        5                        10                        15
Gln Thr Ala Leu Val Cys Pro Leu Ser Leu Ser Leu Gly Pro Pro Gly
                20                        25                        30
Pro Gln Cys Pro Leu Leu Trp Leu Gly Gln Glu Asp Leu Pro Asp Ile
         35                        40                        45
Ala Arg Cys Ile Thr Asp Asp Cys Ser Gln Leu Pro Gln Ala Pro Ala
         50                        55                        60
Ser Leu Ala Ser Cys Phe Phe Pro Gln Ser Cys Leu Leu Ile Ser Ile
65                        70                        75                        80
His Leu Ser Met Gly Tyr Ser Trp Thr Leu Gly Leu Gly Val Gly Ile
                        85                        90                        95
Arg Leu Leu Pro Thr Lys Gly Val Lys Val Thr His Phe Pro Tyr His
                100                        105                        110
Ala  *
113
```

```
        <210> 1313
        <211> 88
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1313
Met Ser Ser Ser Gly Gln Leu Gly His Pro Pro Arg Ala Pro His Ser
1                        5                        10                        15
Trp Arg Arg Trp Cys Trp Trp Leu Phe Met Leu Ala Thr Ser Leu Ser
                20                        25                        30
Arg Arg Arg Arg Pro Ser Thr Pro Leu Ile His Tyr Arg Val Phe Thr
         35                        40                        45
Val Asn His Lys Met Asp Pro Val Thr Arg Thr Phe Thr Leu Asp Ile
         50                        55                        60
Lys Val Val Phe Pro Asp Glu Gly Trp Gly Val Val Val Asp Pro Gly
65                        70                        75                        80
His Trp Gly Tyr Met Val Cys  *
                        85        87
```

```
<210> 1314
<211> 65
<212> PRT
<213> Homo sapiens


<400> 1314
Met Gly Gly Arg Leu Trp Ile Phe Leu Gln Leu Cys Gln Ser Leu Gly
1               5                   10                  15
Leu Ser Thr Val Val Ser Ser Arg Pro Val Ala Cys Leu Glu Ser Val
            20                  25                  30
Pro Gly Met Cys Met Ser Val Cys Met Pro Leu Asn Tyr Arg Gly Ser
        35                  40                  45
Asn Phe Ser Glu Thr Asp Val Trp Met Asp Leu Ser Arg Ala His Leu
    50                  55                  60              64
    *
```

```
<210> 1315
<211> 71
<212> PRT
<213> Homo sapiens


<400> 1315
Met Leu Ile Pro Ile Pro Val His Ile Phe Pro Leu Ser Ser Leu Leu
1               5                   10                  15
Gly Asp Gly Thr Met Arg Leu Leu Pro Asp Ile Ser Ser Asp Trp Leu
            20                  25                  30
Cys Leu Asn Gln Glu Phe Ala Pro Val Gln Ser Ala Ile Ala Met Glu
        35                  40                  45
Trp Gly Ser Cys Val Gly Asp Gln Asp Asp Thr His Trp Ile Cys Leu
    50                  55                  60
Arg Gln Thr Ser Gly Val  *
65                  70
```

```
<210> 1316
<211> 114
<212> PRT
<213> Homo sapiens


<400> 1316
Met Ala Thr Pro Ser Ser Pro Trp Trp Ala His Ser Gly Leu Pro Pro
1               5                   10                  15
Leu Phe Ser Ser Gly Leu Ser Trp Arg Leu Val Pro Leu Phe Trp Cys
            20                  25                  30
Leu Gln Ser Leu Thr Gly Phe Leu Gly Pro Cys Leu Pro Arg Thr Thr
        35                  40                  45
Arg Ala Phe Leu Ser Leu Gln Ser Trp Asp Leu Pro Gly Thr Arg Pro
    50                  55                  60
Gly Ser Gln Ala Gln Gly Phe Thr Ala Cys Asn Ala Ala Asn Thr Pro
```

```
 65                    70                   75                   80
Gly Leu Ala Ala Leu Pro Gly Ser Gly Ala Phe Ser Val Ile Pro Val
                     85                   90                   95
Ser Leu Leu Leu Pro Val Pro Glu Gly Leu Gly Arg Thr Tyr Leu Tyr
                100               105               110
Ser  *
113
```

```
        <210> 1317
        <211> 91
        <212> PRT
        <213> Homo sapiens


        <400> 1317
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
  1                5                  10                  15
Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
                20                  25                  30
Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
            35                  40                  45
Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
        50                  55                  60
Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
 65                 ·70                  75                   80
Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe  *
                85                  90
```

```
        <210> 1318
        <211> 65
        <212> PRT
        <213> Homo sapiens


        <400> 1318
Met Leu Pro Leu Ile Ser Ser Ile Lys Ile Leu Lys Leu Leu Tyr Tyr
  1                5                  10                  15
Phe Ser Val Trp Gly Trp Gly Phe Phe Phe Glu Thr Glu Phe Arg
                20                  25                  30
Ser Cys Cys Pro Gly Trp Ser Ala Met Val Arg Ser Gln Leu Thr Ala
            35                  40                  45
Thr Ser Thr Ser Arg Val Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu
        50                  55                  60                  64
  *
```

```
        <210> 1319
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1319
```

```
Met Val Thr Leu Leu Ile Ala Lys Gln Phe Trp Ile Phe Thr Val Asp
1               5                   10                  15
Leu His Leu Ser Asp Tyr Val Leu Glu Leu Ser Arg Tyr Leu Ile Asn
            20                  25                  30
Ala Cys Phe Tyr Ser Pro Cys Ser Gln Pro Ile Glu Lys  *
        35                  40                  45
```

```
<210> 1320
<211> 47
<212> PRT
<213> Homo sapiens
```

```
<400> 1320
Met Pro Ala Leu Leu Val Leu Lys Val Val Lys Val Leu Leu Pro Met
1               5                   10                  15
Val Leu Thr Gly Leu Gly Val Glu Glu Leu Lys Glu Met Val Leu Leu
            20                  25                  30
Leu Pro Val Pro Cys Ala Ala Ile Ile Gly Ser Phe Lys Leu  *
        35                  40                  45  46
```

```
<210> 1321
<211> 55
<212> PRT
<213> Homo sapiens
```

```
<400> 1321
Met Ile Cys Phe Cys Leu Pro Val Cys Pro Lys Thr His Leu Ala His
1               5                   10                  15
Pro Met Leu Ala Thr Leu Ala Phe Val Ser Leu Leu Glu Tyr Ala Lys
            20                  25                  30
His Cys Leu Arg Asp Phe Ile Leu Val Ser Phe Leu Leu Gly Met Leu
        35                  40                  45
Phe Leu Arg Tyr Gln His  *
    50              54
```

```
<210> 1322
<211> 301
<212> PRT
<213> Homo sapiens
```

```
<400> 1322
Met Lys Ile Ala Phe Gly Asn Leu Trp Met Glu Ile Leu Tyr Leu Lys
1               5                   10                  15
Pro Pro Trp Thr Leu Leu His Leu Leu Gln Cys Phe Lys Lys His Trp
            20                  25                  30
Leu Ala Val Phe Gly Leu Val Met Glu Lys Asn Leu Leu Leu Thr Ile
        35                  40                  45
Glu Ser Leu Tyr Lys Asn Leu Arg Lys Ala Asn Lys Ala Val Asp Phe
    50                  55                  60
Thr Thr Val Lys Phe Leu Leu Gln Asp Ser Arg Ser Leu Leu His Ala
```

754

```
 65                      70                      75                      80
Phe Ser Thr Arg Ser Asn Tyr Asp Gly Ile Leu Pro Gln Thr Phe Ala
                    85                      90                      95
Gln Val Asn Asn Leu Leu Gln Thr Phe Ala Glu Val Lys Thr Lys Leu
                   100                     105                     110
Lys Pro Asn Ser Ser Glu Asn Thr Val Thr Lys Lys Gln Glu Gly Thr
                   115                     120                     125
Ser Leu Lys Asn Ser His Asn Gln Glu Ile Thr Val Phe Ser Ser Ser
           130                     135                     140
His Leu Pro Gln Pro Ser Arg His Gln Glu Ile Trp Ser Ile Leu Glu
       145                     150                     155                 160
Ser Val Trp Ile Thr Ile Tyr Gln Asn Ser Thr Asp Val Phe Gln Arg
                   165                     170                     175
Leu Gly Ser Asn Ser Ala Leu Thr Thr Ser Asn Ile Ala Ser Phe Glu
                   180                     185                     190
Glu Ala Phe Ile Cys Leu Gln Lys Leu Met Ala Ala Val Arg Asp Ile
                   195                     200                     205
Leu Glu Gly Ile Gln Arg Ile Leu Ala Pro Asn Ser Asn Tyr Gln Asp
       210                     215                     220
Val Glu Thr Leu Tyr Asn Phe Leu Ile Lys Tyr Glu Val Asn Lys Asn
225                     230                     235                     240
Val Lys Phe Thr Ala Gln Glu Ile Tyr Asp Cys Val Ser Gln Thr Glu
                   245                     250                     255
Tyr Arg Glu Lys Leu Thr Ile Gly Cys Arg Gln Leu Val Glu Met Glu
                   260                     265                     270
Tyr Thr Met Gln Gln Cys Asn Ala Ser Val Tyr Met Glu Ala Lys Asn
           275                     280                     285
Arg Gly Trp Cys Glu Asp Met Leu Asn Tyr Arg Ile   *
   290                     295                     300
```

```
        <210> 1323
        <211> 85
        <212> PRT
        <213> Homo sapiens


        <400> 1323
Met Thr Glu His Leu Ala Gln Gln Ser Glu Phe Ala Ala Thr Leu Leu
 1                   5                      10                      15
Leu Leu Trp Ala Pro Leu Lys Thr Gly Arg Leu Thr Asn Ser Phe Val
                   20                      25                      30
Asn Gly Pro Gly Gln His Gly Lys Met Cys Cys Ile Leu Pro Pro Lys
           35                      40                      45
Thr Pro Val Ser Thr Lys Asn Ala Lys Ile Gly Arg Ala Trp Trp Cys
       50                      55                      60
Thr Ser Val Ile Pro Ala Thr Trp Glu Ala Asp Thr Gly Glu Ser Leu
65                      70                      75                      80
Glu Pro Gly Arg   *
           84


        <210> 1324
        <211> 46
        <212> PRT
        <213> Homo sapiens
```

```
    <400> 1324
Met Leu His His Ser Gln Leu Ile Phe Val Phe Leu Val Gln Thr Gly
1                5                    10                   15
Phe His His Val Ala Leu Ser Gly Phe Lys Leu Leu Ala Ser Ser Asn
                20                  25                   30
Leu Pro Thr Leu Asp Pro Lys Val Leu Gly Leu Gln Val  *
          35                  40                   45
```

```
    <210> 1325
    <211> 87
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1325
Met Gly Leu Ser Lys Ala Phe Leu Ile Thr Arg Thr Val Phe Leu Ile
1                5                    10                   15
Ser Ser Leu Ser Phe Tyr Ser Phe Leu Gly Phe Pro Ser Leu Cys Phe
                20                  25                   30
Thr Gly Ser Cys Met Leu Ser Thr Leu Phe Ile Arg Ala Leu Ser Ile
          35                  40                   45
Leu Val Ile Ile Val Leu Asn Ser Arg Ser Asp Lys Ser Asn Thr Pro
       50                  55                  60
Ala Ile Ser Glu Ser Gly Ser Asp Ala Cys Ser Phe Ser Ser Asn Phe
65                  70                  75                  80
Val Phe Cys Leu Leu Val  *
                85  86
```

```
    <210> 1326
    <211> 69
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1326
Met Ser Leu Phe Leu Phe Phe Leu Met Phe Gln Val Leu Ser Glu Val
1                5                    10                   15
Ser Trp Gly Gly Val Gly Ser Val Ser Asn Gln Gly Leu Glu His His
                20                  25                   30
Glu Ile Val Thr Pro Asp Leu Gln Ser Leu Ala Gly Gly Trp Thr Gly
          35                  40                   45
Gly Arg Glu Arg Gly Phe Leu Phe Thr Phe Asn Ile Phe Leu Gln Lys
       50                  55                  60
Lys Gln Thr Ile  *
65          68
```

```
    <210> 1327
    <211> 103
    <212> PRT
    <213> Homo sapiens

    <221> misc_feature
```

```
<222> (1)...(103)
<223> Xaa = any amino acid or nothing


<400> 1327
Met Val Gly Phe Gly Thr Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
1                 5                  10                  15
Val Leu Val Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
            20                  25                  30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Glu Glu Glu Val Ala Glu
        35                  40                  45
Leu Gln Gly Arg Val Gln Arg Ala Glu Val Ala Leu Trp Arg Val Gly
    50                  55                  60
Gly Arg Asn Cys Asp Leu Leu Leu Val Val Gly Thr Arg Ser Arg Arg
65                  70                  75                  80
Ile Glu Glu Arg Gly Ala Asp Tyr Ser Arg Leu Ser Arg Arg Leu Gln
            85                  90                  95
Xaa Lys Glu Gly Leu Val Asn
            100         103



<210> 1328
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1328
Met Arg Ala Arg Pro Ala Cys Thr Ala Thr Phe Pro Ser Phe His Leu
1                 5                  10                  15
Ala Leu Asp Ser Ser Tyr Leu Pro Cys Cys Lys Gly Lys Ala Thr Phe
            20                  25                  30
Ile Pro Lys Ser Arg Ile Tyr Leu Gln Glu Ala Lys Gly Ser Gly Glu
        35                  40                  45
Pro Leu Gly   *
    50   51



<210> 1329
<211> 204
<212> PRT
<213> Homo sapiens


<400> 1329
Met Cys Thr Arg Asn Leu Ala Leu Leu Phe Ala Pro Ser Val Phe Gln
1                 5                  10                  15
Thr Asp Gly Arg Gly Glu His Glu Val Arg Val Leu Gln Glu Leu Ile
            20                  25                  30
Asp Gly Tyr Ile Ser Val Phe Asp Ile Asp Ser Asp Gln Val Ala Gln
        35                  40                  45
Ile Asp Leu Glu Val Ser Leu Ile Thr Thr Trp Lys Asp Val Gln Leu
    50                  55                  60
Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
65                  70                  75                  80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
            85                  90                  95
```

```
Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met
            100                 105                 110
Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg
            115                 120                 125
Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys
        130                 135                 140
Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Leu Lys Lys Val Pro
145                 150                 155                 160
Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro
                165                 170                 175
Arg Val Gly Leu Phe Ala Val Phe Val Arg Ser His Leu Ala Cys Trp
            180                 185                 190
Gly Ser Arg Phe Gln Glu Arg Phe Phe Leu Val Ala
        195                 200             204
```

```
<210> 1330
<211> 199
<212> PRT
<213> Homo sapiens
```

```
<400> 1330
Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
1               5                   10                  15
Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
            20                  25                  30
Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
        35                  40                  45
Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
    50                  55                  60
Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
65                  70                  75                  80
Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
            85                  90                  95
Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
            100                 105                 110
Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
        115                 120                 125
Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
    130                 135                 140
Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
145                 150                 155                 160
His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
                165                 170                 175
Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Leu His
            180                 185                 190
Thr Ala Ala Leu Pro Ala    *
        195             198
```

```
<210> 1331
<211> 81
<212> PRT
<213> Homo sapiens
```

```
<400> 1331
Met Ala Arg Pro Ser Ala Phe Pro Ile Gly Val Cys Leu Thr Leu Pro
1               5                   10                  15
Met Ala Trp Ile Ser Pro Gly Leu Ala Val Pro Ser Cys Pro Gln Tyr
            20                  25                  30
Ile Leu Gln Ala Gln Gly Cys Ile Leu Asp Met Lys Thr Arg Gly Ser
        35                  40                  45
His Gly Glu Ser Ala Val Pro Gly Ala His Gly Ser Arg Pro Phe His
    50                  55                  60
Pro Leu Ala Glu Pro Asn Pro Pro Arg Gln Lys Leu Thr Pro Cys Thr
65                  70                  75                  80
*
```

```
<210> 1332
<211> 73
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(73)
<223> Xaa = any amino acid or nothing
```

```
<400> 1332
Met Thr Ile Ile Leu Gln Ile Glu Thr Val Ile Phe Leu Leu Tyr Leu
1               5                   10                  15
Ala Pro Asp Thr Val Arg Pro Leu Thr Ile Ile Thr Gly Met Ala Gly
            20                  25                  30
Ile Val Lys Gln Gln Ile Asp Ser His Ile Thr Asp Pro Asp Gln Gln
        35                  40                  45
Asn Asn Gly Leu Ser Leu Ser Gly Pro Pro Pro Ala Pro Asp Pro Leu
    50                  55                  60
Asp Xaa Leu Val Pro Thr Leu Trp Gly
65                  70          73
```

```
<210> 1333
<211> 52
<212> PRT
<213> Homo sapiens
```

```
<400> 1333
Met Leu Val Tyr Ile Leu Trp Asn Met Tyr Phe Asn Val Cys Ile Val
1               5                   10                  15
Pro Gly Val Ile Lys Ser Lys Thr Gly Thr Gln Asp Leu Ser Gly Leu
            20                  25                  30
Trp Pro Leu Gly Thr Phe Pro Leu Ile Thr Phe Leu Pro Thr Trp Leu
        35                  40                  45
Ser Tyr Gly *
    50  51
```

```
<210> 1334
```

759

```
<211> 65
<212> PRT
<213> Homo sapiens


<400> 1334
Met Ile Leu Phe Gln Leu Pro Ser Asn Val Phe Val Leu Leu Met Phe
1               5                   10                  15
Leu Phe Leu Phe Glu Phe Phe Leu Thr Leu Val Pro Met Trp Ala Phe
            20                  25                  30
Pro Gly Asp Lys Thr Phe Val Ser Pro Ala Ser Ser Leu Ser Phe Leu
        35                  40                  45
Asp Leu Ser Phe Leu Leu Phe Cys Asn Ser Val Ser Ile Gly Lys Gln
    50                  55                  60              64
*
```

```
<210> 1335
<211> 112
<212> PRT
<213> Homo sapiens


<400> 1335
Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val
1               5                   10                  15
Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln
            20                  25                  30
Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser
        35                  40                  45
Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
    50                  55                  60
Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
65                  70                  75                  80
Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
            85                  90                  95
Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
            100                 105                 110     112
```

```
<210> 1336
<211> 105
<212> PRT
<213> Homo sapiens


<400> 1336
Met Thr Gly Asn Leu Cys Phe Phe Ser Ile Lys Gly Tyr Leu Leu Thr
1               5                   10                  15
Ser Glu Ile Leu Met Ile Tyr Leu Thr Leu Glu Phe Cys Ile Leu Arg
            20                  25                  30
Gly Lys His Leu Asn Val Ser Phe Lys Ala Gly Asp Thr Phe Ile Leu
        35                  40                  45
Tyr Leu Gly Ser Leu Gly Phe Glu Glu Glu Gly Gly Pro Glu Ile Leu
```

```
       50                    55                    60
Lys Asp Cys Met Gly Gly Leu Ser Ser Pro Pro Leu Trp Lys Ala Glu
 65                    70                    75                    80
Ala Gly Cys Ile Ile Trp Gly Leu Gly Val Trp Asp His Pro Trp Ala
                   85                    90                    95
Thr Thr Arg His Pro Leu Leu Cys  *
                  100            104
```

```
    <210> 1337
    <211> 57
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1337
Met Tyr Val Leu Ser Ser Ala His Leu Cys Phe Leu Cys Leu Gln Cys
 1               5                    10                    15
Ser Ser Leu Glu Val Tyr Leu Ile Ser Ser Leu Thr Ser Phe Arg Ser
               20                    25                    30
Val Leu Asn Cys Tyr Pro Pro Glu Arg Ser Ser Leu Thr Ile Gln Tyr
               35                    40                    45
Gln Ile Leu Leu Leu Leu Leu Gln  *
               50                    55  56
```

```
    <210> 1338
    <211> 59
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1338
Met Arg Ile Ile Ser Leu Thr Leu Met Leu Leu Glu Leu Phe Asp Ser
 1               5                    10                    15
Glu Asp Pro Arg Gln Arg Glu Tyr Leu Lys Asn Ile Leu His Arg Leu
               20                    25                    30
Tyr Gly Arg Met Leu Gly Leu Arg Pro Tyr Ile His Lys Gln Ser Lys
               35                    40                    45
His Ile Phe Leu Arg Met Ile Tyr Glu Phe  *
               50                    55                    58
```

```
    <210> 1339
    <211> 50
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1339
Met Ile Lys Leu Ala Ile Trp Ser Ile Ile Ile Gly Leu Arg Leu Thr
 1               5                    10                    15
Ile Leu Phe Cys Ile Glu Thr Arg Glu Ser Asp Ile Cys Lys Ile Leu
               20                    25                    30
Gln Tyr Thr Glu Ser Thr Ile Phe Trp Arg Phe Phe Pro Val Tyr Arg
               35                    40                    45
```

761

```
Tyr  *
49


       <210> 1340
       <211> 81
       <212> PRT
       <213> Homo sapiens


       <400> 1340
Met Pro Leu Ala Cys Thr Gly Leu Asn Thr Gln Arg Phe Ser Tyr Leu
 1               5                  10                  15
Arg Asp Leu Phe Leu Pro Trp Gly Leu Cys Ile Leu Tyr Ser Ile Leu
                20                  25                  30
Ser Ala Ile Phe Pro Asp Leu Ser Ser Ser Ala Lys Leu Pro Ser Leu
            35                  40                  45
His Ile Ala Phe Phe Thr Leu Phe Lys Val Thr Lys Gly Thr Ser Pro
        50                  55                  60
Lys Ala Thr Asp Val Pro Val Ala Cys Phe Ile Asn His Asn Arg Thr
65                  70                  75                  80
 *


       <210> 1341
       <211> 60
       <212> PRT
       <213> Homo sapiens


       <400> 1341
Met Phe Glu Ile His Arg Ala His Gly Val Phe Leu Leu Leu Ser Ile
 1               5                  10                  15
Gln Leu Thr Thr Ser Leu Lys Arg Lys Ser Gly Glu Gly Asp Arg Glu
                20                  25                  30
Ser Pro Ala Ser Trp Phe Ser Pro Phe Ser Gln Met Phe Phe Leu Ile
            35                  40                  45
Asn Thr Ile Leu Leu Pro Phe Lys Ile Pro Ile  *
        50                  55                  59


       <210> 1342
       <211> 49
       <212> PRT
       <213> Homo sapiens


       <400> 1342
Met Leu Ser Leu Phe Ile Phe Leu Arg Phe Leu Pro Leu Gly Phe Cys
 1               5                  10                  15
Trp Lys Glu Leu His Pro Glu Ala Glu Gln Ser Glu Lys Val Asp Phe
                20                  25                  30
Arg Lys Pro Trp Tyr Leu Thr Gly His Ala Ala Ser Leu Gly Ala Asp
            35                  40                  45                  48
 *
```

```
<210> 1343
<211> 70
<212> PRT
<213> Homo sapiens


<400> 1343
Met Arg Leu Ala Val Ser Cys Ile Thr Ser Phe Leu Met Leu Ser Leu
 1               5                  10                  15
Leu Leu Phe Met Ala His Arg Leu Arg Gln Arg Arg Arg Glu Arg Ile
            20                  25                  30
Glu Ser Leu Ile Gly Ala Asn Leu His His Phe Asn Leu Gly Arg Arg
        35                  40                  45
Ile Pro Gly Phe Asp Tyr Gly Pro Asp Gly Phe Gly Thr Gly Leu Thr
    50                  55                  60
Pro Leu Ala Phe Phe   *
65              69
```

```
<210> 1344
<211> 99
<212> PRT
<213> Homo sapiens


<400> 1344
Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1               5                  10                  15
Cys Leu Tyr Leu Ser Leu Ala Leu Tyr Leu Gly Ser Phe Phe Cys Leu
            20                  25                  30
Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
        35                  40                  45
Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
    50                  55                  60
Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
65              70                  75                  80
Met Gln Lys Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Pro Arg Gly
                85                  90                  95
Trp Ala   *
    98
```

```
<210> 1345
<211> 112
<212> PRT
<213> Homo sapiens


<400> 1345
Met Lys Val Leu Trp Ala Gly Val Leu Gly Thr Phe Leu Ala Gly Cys
 1               5                  10                  15
Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
            20                  25                  30
```

```
Cys Gln Gln Thr Glu Trp Lys Ser Gly Gln Arg Trp Glu Leu Glu Leu
        35              40              45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Glu Gln Thr Leu Ser Glu Gln
        50              55              60
Val Gln Glu Glu Leu Val Ser Ser Gln Val Thr Gln Glu Leu Lys Ala
65              70              75              80
Leu Met Asp Glu Thr Met Lys Glu Met Lys Ala Tyr Lys Ser Asp Leu
                85              90              95
Glu Glu Gln Leu Thr Pro Val Ala Gly Arg Arg Trp His Gly Cys Thr
                100             105             110     112
```

```
<210> 1346
<211> 360
<212> PRT
<213> Homo sapiens
```

```
<400> 1346
Met Leu Phe Val Pro Val Thr Leu Cys Met Ile Val Val Val Ala Thr
1               5               10              15
Ile Lys Ser Val Arg Phe Tyr Thr Glu Lys Asn Gly Gln Leu Ile Tyr
            20              25              30
Thr Pro Phe Thr Glu Asp Thr Pro Ser Val Gly Gln Arg Leu Leu Asn
        35              40              45
Ser Val Leu Asn Thr Leu Ile Met Ile Ser Val Ile Val Val Met Thr
    50              55              60
Ile Phe Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His
65              70              75              80
Gly Trp Leu Ile Met Ser Ser Leu Met Leu Leu Phe Leu Phe Thr Tyr
                85              90              95
Ile Tyr Leu Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr
                100             105             110
Pro Thr Leu Leu Leu Thr Val Trp Asn Phe Gly Ala Val Gly Met Val
        115             120             125
Cys Ile His Trp Lys Gly Pro Leu Val Leu Gln Gln Ala Tyr Leu Ile
    130             135             140
Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr Leu Pro Glu
145             150             155             160
Trp Ser Ala Trp Val Ile Leu Gly Ala Ile Ser Val Tyr Asp Leu Val
                165             170             175
Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val Glu Thr Ala
            180             185             190
Gln Glu Arg Asn Glu Pro Ile Phe Pro Ala Leu Ile Tyr Ser Ser Ala
        195             200             205
Met Val Trp Thr Val Gly Met Ala Lys Leu Asp Pro Ser Ser Gln Gly
    210             215             220
Ala Leu Gln Leu Pro Tyr Asp Pro Glu Met Glu Glu Asp Ser Tyr Asp
225             230             235             240
Ser Phe Gly Glu Pro Ser Tyr Pro Glu Val Phe Glu Pro Pro Leu Thr
                245             250             255
Gly Tyr Pro Gly Glu Glu Leu Glu Glu Glu Glu Arg Gly Val Lys
            260             265             270
Leu Gly Leu Gly Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala
        275             280             285
Ala Ala Thr Gly Ser Gly Asp Trp Asn Thr Thr Leu Ala Cys Phe Val
```

```
        290                    295                    300
Ala Ile Leu Ile Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Val Phe
305                    310                    315                    320
Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Ile
                325                    330                    335
Phe Tyr Phe Ser Thr Asp Asn Leu Val Arg Pro Phe Met Asp Thr Leu
                340                    345                    350
Ala Ser His Gln Leu Tyr Ile  *
                355                    359
```

```
        <210> 1347
        <211> 84
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1347
Met Ile Leu Ser Leu Tyr Tyr Lys Leu Phe Gly Lys Leu Ala Val Ala
1                    5                     10                    15
Thr Ile Glu Ile Leu His Cys Leu Cys Tyr Ile Glu Phe Val Ile Ile
                20                     25                    30
Phe Lys Gly Phe Lys Lys Ile Pro Ile Cys Phe Phe Ser Phe Leu Phe
                35                     40                    45
Ser Phe Val Pro His His Leu Asn Tyr Leu Gly Lys Tyr His Ser Ser
        50                     55                    60
Lys Phe Glu Tyr Cys Leu Ser Asn Lys Lys Lys Cys Glu Arg Tyr Glu
 65                    70                     75                    80
Glu Glu Arg  *
        83
```

```
        <210> 1348
        <211> 65
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1348
Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
1                    5                     10                    15
Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Gly
                20                     25                    30
Tyr Ile Ile Ala Phe Phe Val Leu Tyr Thr Asn Arg Met Tyr Ser Ile
        35                     40                    45
Ile Asn Ile Ile Leu Asn Leu Phe Tyr Pro Val Tyr Tyr Cys Lys Ile
        50                     55                    60
 *
```

```
        <210> 1349
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
<400> 1349
Met Pro Ser Pro Ser Gly Leu Trp Arg Ile Leu Leu Leu Val Leu Gly
1               5                   10                  15
Ser Val Leu Ser Gly Ser Ala Arg Ala Ala Ala Pro Leu Arg Val Leu
            20                  25                  30
Arg Gln Thr Ala Leu Cys Cys Ala Thr Glu Ala Leu Val Ala Val Pro
        35                  40                  45
Glu Gly Ile Pro Thr Glu Thr Arg Leu  *
    50                  55      57


<210> 1350
<211> 60
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(60)
<223> Xaa = any amino acid or nothing


<400> 1350
Met Gly Ile Gly Cys Trp Arg Asn Pro Leu Val Leu Leu Met Ala Leu
1               5                   10                  15
Ala Cys Gln Ala Ser Trp Gly Leu Ser Lys Gly Gly Arg Val Leu Pro
            20                  25                  30
Asn Leu Cys Pro Lys Lys Met Phe Xaa Thr Leu Phe Phe Phe Asn Ser
        35                  40                  45
Gln Arg Gly Arg Gly Pro Pro Phe Trp Ala Gly Gly
    50                  55                  60


<210> 1351
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1351
Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro Met Leu Cys
1               5                   10                  15
Thr Cys Tyr Ser Ser Pro Pro Thr Val Ser Cys Gln Ala Asn Asn Phe
            20                  25                  30
Ser Ser Val Pro Leu Ser Leu Pro Pro Ser Thr Gln Arg Leu Phe Leu
        35                  40                  45
Gln Asn Asn Leu Ile Arg Thr Leu
    50                  55  56


<210> 1352
<211> 701
<212> PRT
<213> Homo sapiens
```

766

```
    <400> 1352
Met Glu Pro Leu Cys Pro Leu Leu Leu Val Gly Phe Ser Leu Pro Leu
 1               5                  10               15
Ala Arg Ala Leu Arg Gly Asn Glu Thr Thr Ala Asp Ser Asn Glu Thr
            20                  25                  30
Thr Thr Thr Ser Gly Pro Pro Asp Pro Gly Ala Ser Gln Pro Leu Leu
         35                  40                  45
Ala Trp Leu Leu Leu Pro Leu Leu Leu Leu Leu Val Leu Leu Leu
 50                  55                  60
Ala Ala Tyr Phe Phe Arg Phe Arg Lys Gln Arg Lys Ala Val Val Ser
 65               70                  75                  80
Thr Ser Asp Lys Lys Met Pro Asn Gly Ile Leu Glu Glu Gln Glu Gln
            85                  90                  95
Gln Arg Val Met Leu Leu Ser Arg Ser Pro Ser Gly Pro Lys Lys Tyr
            100                 105                 110
Phe Pro Ile Pro Val Glu His Leu Glu Glu Glu Ile Arg Ile Arg Ser
            115                 120                 125
Ala Asp Asp Cys Lys Gln Phe Arg Glu Glu Phe Asn Ser Leu Pro Ser
 130                 135                 140
Gly His Ile Gln Gly Thr Phe Glu Leu Ala Asn Lys Glu Glu Asn Arg
145                 150                 155                 160
Glu Lys Asn Arg Tyr Pro Asn Ile Leu Pro Asn Asp His Ser Arg Val
            165                 170                 175
Ile Leu Ser Gln Leu Asp Gly Ile Pro Cys Ser Asp Tyr Ile Asn Ala
            180                 185                 190
Ser Tyr Ile Asp Gly Tyr Lys Glu Lys Asn Lys Phe Ile Ala Ala Gln
            195                 200                 205
Gly Pro Lys Gln Glu Thr Val Asn Asp Phe Trp Arg Met Val Trp Glu
 210                 215                 220
Gln Lys Ser Ala Thr Ile Val Met Leu Thr Asn Leu Lys Glu Arg Lys
225                 230                 235                 240
Glu Glu Lys Cys His Gln Tyr Trp Pro Asp Gln Gly Cys Trp Thr Tyr
            245                 250                 255
Gly Asn Ile Arg Val Cys Val Glu Asp Cys Val Val Leu Val Asp Tyr
            260                 265                 270
Thr Ile Arg Lys Phe Cys Ile Gln Pro Gln Leu Pro Asp Gly Cys Lys
            275                 280                 285
Ala Pro Arg Leu Val Ser Gln Leu His Phe Thr Ser Trp Pro Asp Phe
 290                 295                 300
Gly Val Pro Phe Thr Pro Ile Gly Met Leu Lys Phe Leu Lys Lys Val
305                 310                 315                 320
Lys Thr Leu Asn Pro Val His Ala Gly Pro Ile Val Val His Cys Ser
            325                 330                 335
Ala Gly Val Gly Arg Thr Gly Thr Phe Ile Val Ile Asp Ala Met Met
            340                 345                 350
Ala Met Met His Ala Glu Gln Lys Val Asp Val Phe Glu Phe Val Ser
            355                 360                 365
Arg Ile Arg Asn Gln Arg Pro Gln Met Val Gln Thr Asp Met Gln Tyr
    370                 375                 380
Thr Phe Ile Tyr Gln Ala Leu Leu Glu Tyr Tyr Leu Tyr Gly Asp Thr
385                 390                 395                 400
Glu Leu Asp Val Ser Ser Leu Glu Lys His Leu Gln Thr Met His Gly
            405                 410                 415
Thr Thr Thr His Phe Asp Lys Ile Gly Leu Glu Glu Glu Phe Arg Lys
            420                 425                 430
Leu Thr Asn Val Arg Ile Met Lys Glu Asn Met Arg Thr Gly Asn Leu
            435                 440                 445
Pro Ala Asn Met Lys Lys Ala Arg Val Ile Gln Ile Ile Pro Tyr Asp
    450                 455                 460
```

767

```
Phe Asn Arg Val Ile Leu Ser Met Lys Arg Gly Gln Glu Tyr Thr Asp
465                 470                 475                 480
Tyr Ile Asn Ala Ser Phe Ile Asp Gly Tyr Arg Gln Lys Asp Tyr Phe
                485                 490                 495
Ile Ala Thr Gln Gly Pro Leu Ala His Thr Val Glu Asp Phe Trp Arg
            500                 505                 510
Met Ile Trp Glu Trp Lys Ser His Thr Ile Val Met Leu Thr Glu Val
            515                 520                 525
Gln Glu Arg Glu Gln Asp Lys Cys Tyr Gln Tyr Trp Pro Thr Glu Gly
        530                 535                 540
Ser Val Thr His Gly Glu Ile Thr Ile Glu Ile Lys Asn Asp Thr Leu
545                 550                 555                 560
Ser Glu Ala Ile Ser Ile Arg Asp Phe Leu Val Thr Leu Asn Gln Pro
                565                 570                 575
Gln Ala Arg Gln Glu Glu Gln Val Arg Val Val Arg Gln Phe His Phe
                580                 585                 590
His Gly Trp Pro Glu Ile Gly Ile Pro Ala Glu Gly Lys Gly Met Ile
            595                 600                 605
Asp Leu Ile Ala Ala Val Gln Lys Gln Gln Gln Gln Thr Gly Asn His
    610                 615                 620
Pro Ile Thr Val His Cys Ser Ala Gly Ala Gly Arg Thr Gly Thr Phe
625                 630                 635                 640
Ile Ala Leu Ser Asn Ile Leu Glu Arg Val Lys Ala Glu Gly Leu Leu
                645                 650                 655
Asp Val Phe Gln Ala Val Lys Ser Leu Arg Leu Gln Arg Pro His Met
                660                 665                 670
Val Gln Thr Leu Glu Gln Tyr Glu Phe Cys Tyr Lys Val Val Gln Asp
        675                 680                 685
Phe Ile Asp Ile Phe Ser Asp Tyr Ala Asn Phe Lys  *
    690                 695                 700
```

```
        <210> 1353
        <211> 49
        <212> PRT
        <213> Homo sapiens


        <400> 1353
Met Ala Phe Leu Tyr His Val Ala Tyr Val Leu Val Cys Met Leu Gly
1               5                   10                  15
Leu Phe Cys His Glu Phe Phe Tyr Ser Phe·Leu Leu Phe Glu Ser Val
            20                  25                  30
Tyr Arg His Gln Thr Leu Leu Asn Asp Ile Pro Cys Val Lys Leu Met
        35                  40                  45              48
    *
```

```
        <210> 1354
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 1354
Met Ser Val Cys Lys Tyr Thr Val Tyr Gly Phe Phe Ile Phe Ala Phe
```

768

```
1                    5                    10                   15
Phe Tyr Phe Thr Lys Asp Asn Ile Pro Tyr Leu Lys Val Ser Leu Gln
            20                   25                   30
Ala Phe Cys Gly Phe Gln Asn Ile Ser Trp Asn Lys Tyr Thr Leu Leu
        35                   40                   45
Phe Tyr Tyr Ser Pro Leu Thr Ile Ile *
    50                   55       57
```

```
<210> 1355
<211> 4261
<212> PRT
<213> Homo sapiens
```

```
<400> 1355
Met Leu Ser Ala Ile Leu Leu Leu Leu Gln Leu Trp Asp Ser Gly Ala
1                    5                    10                   15
Gln Glu Thr Asp Asn Glu Arg Ser Ala Gln Gly Thr Ser Ala Pro Leu
            20                   25                   30
Leu Pro Leu Leu Gln Arg Phe Gln Ser Ile Ile Cys Arg Lys Asp Ala
        35                   40                   45
Pro His Ser Glu Gly Asp Met His Leu Leu Ser Gly Pro Leu Ser Pro
    50                   55                   60
Asn Glu Ser Phe Leu Arg Tyr Leu Thr Leu Pro Gln Asp Asn Glu Leu
65                   70                   75                   80
Ala Ile Asp Leu Arg Gln Thr Ala Val Val Val Met Ala His Leu Asp
            85                   90                   95
Arg Leu Ala Thr Pro Cys Met Pro Pro Leu Cys Ser Ser Pro Thr Ser
            100                  105                  110
His Lys Gly Ser Leu Gln Glu Val Ile Gly Trp Gly Leu Ile Gly Trp
        115                  120                  125
Lys Tyr Tyr Ala Asn Val Ile Gly Pro Ile Gln Cys Glu Gly Leu Ala
    130                  135                  140
Asn Leu Gly Val Thr Gln Ile Ala Cys Ala Glu Lys Arg Phe Leu Ile
145                  150                  155                  160
Leu Ser Arg Asn Gly Arg Val Tyr Thr Gln Ala Tyr Asn Ser Asp Thr
            165                  170                  175
Leu Ala Pro Gln Leu Val Gln Gly Leu Ala Ser Arg Asn Ile Val Lys
            180                  185                  190
Ile Ala Ala His Ser Asp Gly His His Tyr Leu Ala Leu Ala Ala Thr
        195                  200                  205
Gly Glu Val Tyr Ser Trp Gly Cys Gly Asp Gly Gly Arg Leu Gly His
    210                  215                  220
Gly Asp Thr Val Pro Leu Glu Glu Pro Lys Val Ile Ser Ala Phe Ser
225                  230                  235                  240
Gly Lys Gln Ala Gly Lys His Val Val His Ile Ala Cys Gly Ser Thr
            245                  250                  255
Tyr Ser Ala Ala Ile Thr Ala Glu Gly Glu Leu Tyr Thr Trp Gly Arg
            260                  265                  270
Gly Asn Tyr Gly Arg Leu Gly His Gly Ser Ser Glu Asp Glu Ala Ile
        275                  280                  285
Pro Met Leu Val Ala Gly Leu Lys Gly Leu Lys Val Ile Asp Val Ala
    290                  295                  300
Cys Gly Ser Gly Asp Ala Gln Thr Leu Ala Val Thr Glu Asn Gly Gln
305                  310                  315                  320
Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu Gly Arg Gly Gly
            325                  330                  335
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Ser Asp Gly Cys Lys Thr Pro Lys Leu Ile Glu Lys Leu Gln Asp Leu
        340             345             350
Asp Val Val Lys Val Arg Cys Gly Ser Gln Phe Ser Ile Ala Leu Thr
        355             360             365
Lys Asp Gly Gln Val Tyr Ser Trp Gly Lys Gly Asp Asn Gln Arg Leu
        370             375             380
Gly His Gly Thr Glu Glu His Val Arg Tyr Pro Lys Leu Leu Glu Gly
385             390             395             400
Leu Gln Gly Lys Lys Val Ile Asp Val Ala Ala Gly Ser Thr His Cys
            405             410             415
Leu Ala Leu Thr Glu Asp Ser Glu Val His Ser Trp Gly Ser Asn Asp
        420             425             430
Gln Cys Gln His Phe Asp Thr Leu Arg Val Thr Lys Pro Glu Pro Ala
        435             440             445
Ala Leu Pro Gly Leu Asp Thr Lys His Ile Val Gly Ile Ala Cys Gly
    450             455             460
Pro Ala Gln Ser Phe Ala Trp Ser Ser Cys Ser Glu Trp Ser Ile Gly
465             470             475             480
Leu Arg Val Pro Phe Val Val Asp Ile Cys Ser Met Thr Phe Glu Gln
            485             490             495
Leu Asp Leu Leu Leu Arg Gln Val Ser Glu Gly Met Asp Gly Ser Ala
        500             505             510
Asp Trp Pro Pro Pro Gln Glu Lys Glu Cys Val Ala Val Ala Thr Leu
        515             520             525
Asn Leu Leu Arg Leu Gln Leu His Ala Ala Ile Ser His Gln Val Asp
    530             535             540
Pro Glu Phe Leu Gly Leu Gly Leu Gly Ser Ile Leu Leu Asn Ser Leu
545             550             555             560
Lys Gln Thr Val Val Thr Leu Ala Ser Ser Ala Gly Val Leu Ser Thr
            565             570             575
Val Gln Ser Ala Ala Gln Ala Val Leu Gln Ser Gly Trp Ser Val Leu
        580             585             590
Leu Pro Thr Ala Glu Glu Arg Ala Arg Ala Leu Ser Ala Leu Leu Pro
    595             600             605
Cys Ala Val Ser Gly Asn Glu Val Asn Ile Ser Pro Gly Arg Arg Phe
610             615             620
Met Ile Asp Leu Leu Val Gly Ser Leu Met Ala Asp Gly Gly Leu Glu
625             630             635             640
Ser Ala Leu His Ala Ala Ile Thr Ala Glu Ile Gln Asp Ile Glu Ala
            645             650     /       655
Lys Lys Glu Ala Gln Lys Glu Lys Glu Ile Asp Glu Gln Glu Ala Asn
            660             665             670
Ala Ser Thr Phe His Arg Ser Arg Thr Pro Leu Asp Lys Asp Leu Ile
        675             680             685
Asn Thr Gly Ile Cys Glu Ser Ser Gly Lys Gln Cys Leu Pro Leu Val
        690             695             700
Gln Leu Ile Gln Gln Leu Leu Arg Asn Ile Ala Ser Gln Thr Val Ala
705             710             715             720
Arg Leu Lys Asp Val Ala Arg Arg Ile Ser Ser Cys Leu Asp Phe Glu
            725             730             735
Gln His Ser Arg Glu Arg Ser Ala Ser Leu Asp Trp Leu Leu Arg Phe
        740             745             750
Gln Arg Leu Leu Ile Ser Lys Leu Tyr Pro Gly Glu Ser Ile Gly Gln
        755             760             765
Thr Ser Asp Ile Ser Ser Pro Glu Leu Met Gly Val Gly Ser Leu Leu
    770             775             780
Lys Lys Tyr Thr Ala Leu Leu Cys Thr His Ile Gly Asp Ile Leu Pro
785             790             795             800
Val Ala Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val
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                    805                    810                    815
Ala Tyr Ile Val Glu Gly Asp Phe Thr Gly Val Leu Leu Pro Glu Leu
                820                    825                    830
Val Val Ser Ile Val Leu Leu Leu Ser Lys Asn Ala Asp Leu Met Gln
            835                    840                    845
Glu Ala Gly Ala Val Pro Leu Leu Gly Gly Leu Leu Glu His Leu Asp
        850                    855                    860
Arg Phe Asn His Leu Ala Pro Gly Lys Glu Arg Asp Asp His Glu Glu
    865                    870                    875                    880
Leu Ala Trp Pro Gly Ile Met Glu Ser Phe Phe Thr Gly Gln Asn Cys
                885                    890                    895
Arg Asn Asn Glu Glu Val Thr Leu Ile Arg Lys Ala Asp Leu Glu Asn
                900                    905                    910
His Asn Lys Asp Gly Gly Phe Trp Thr Val Ile Asp Gly Lys Val Tyr
            915                    920                    925
Asp Ile Lys Asp Phe Gln Thr Gln Ser Leu Thr Gly Asn Ser Ile Leu
        930                    935                    940
Ala Gln Phe Ala Gly Glu Asp Pro Val Val Ala Leu Glu Ala Ala Leu
    945                    950                    955                    960
Gln Phe Glu Asp Thr Arg Glu Ser Met His Ala Phe Cys Val Gly Gln
                965                    970                    975
Tyr Leu Glu Pro Asp Gln Glu Ile Val Thr Ile Pro Asp Leu Gly Ser
            980                    985                    990
Leu Ser Ser Pro Leu Ile Asp Thr Glu Arg Asn Leu Gly Leu Leu Leu
            995                   1000                   1005
Gly Leu His Ala Ser Tyr Leu Ala Met Ser Thr Pro Leu Ser Pro Val
       1010                   1015                   1020
Glu Ile Glu Cys Ala Lys Trp Leu Gln Ser Ser Ile Phe Ser Gly Gly
   1025                   1030                   1035                   1040
Leu Gln Thr Ser Gln Ile His Tyr Arg Tyr Asn Glu Glu Lys Asp Glu
               1045                   1050                   1055
Asp His Cys Ser Ser Pro Gly Gly Thr Pro Ala Ser Lys Ser Arg Leu
           1060                   1065                   1070
Cys Ser His Arg Arg Ala Leu Gly Asp His Ser Gln Ala Phe Leu Gln
           1075                   1080                   1085
Ala Ile Ala Asp Asn Asn Ile Gln Asp His Asn Val Lys Asp Phe Leu
       1090                   1095                   1100
Cys Gln Ile Glu Arg Tyr Cys Arg Gln Cys His Leu Thr Thr Pro Ile
   1105                   1110                   1115                   1120
Met Phe Pro Pro Glu His Pro Val Glu Glu Val Gly Arg Leu Leu Leu
               1125                   1130                   1135
Cys Cys Leu Leu Lys His Glu Asp Leu Gly His Val Ala Leu Ser Leu
           1140                   1145                   1150
Val His Ala Gly Ala Leu Gly Ile Glu Gln Val Lys His Arg Thr Leu
           1155                   1160                   1165
Pro Lys Ser Val Val Asp Val Cys Arg Val Val Tyr Gln Ala Lys Cys
       1170                   1175                   1180
Ser Leu Ile Lys Thr His Gln Glu Gln Gly Arg Ser Tyr Lys Glu Val
   1185                   1190                   1195                   1200
Cys Ala Pro Val Ile Glu Arg Leu Arg Phe Leu Phe Asn Glu Leu Arg
               1205                   1210                   1215
Pro Ala Val Cys Asn Asp Leu Ser Ile Met Ser Lys Phe Lys Leu Leu
           1220                   1225                   1230
Ser Ser Leu Pro Arg Trp Arg Arg Ile Ala Gln Lys Ile Ile Arg Glu
       1235                   1240                   1245
Arg Arg Lys Lys Arg Val Pro Lys Lys Pro Glu Ser Met Asp Asp Glu
   1250                   1255                   1260
Glu Lys Ile Gly Asn Glu Glu Ser Asp Leu Glu Glu Ala Cys Ile Leu
   1265                   1270                   1275                   1280
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Pro His Ser Pro Ile Asn Val Asp Lys Arg Pro Ile Ala Ile Lys Ser
              1285              1290              1295
Pro Lys Asp Lys Trp Gln Pro Leu Leu Ser Thr Val Thr Gly Val His
              1300              1305              1310
Lys Tyr Lys Trp Leu Lys Gln Asn Val Gln Gly Leu Tyr Pro Gln Ser
              1315              1320              1325
Pro Leu Leu Ser Thr Ile Ala Glu Phe Ala Leu Lys Glu Glu Pro Val
              1330              1335              1340
Asp Val Glu Lys Met Arg Lys Cys Leu Leu Lys Gln Leu Glu Arg Ala
         1345              1350              1355              1360
Glu Val Arg Leu Glu Gly Ile Asp Thr Ile Leu Lys Leu Ala Ser Lys
              1365              1370              1375
Asn Phe Leu Leu Pro Ser Val Gln Tyr Ala Met Phe Cys Gly Trp Gln
              1380              1385              1390
Arg Leu Ile Pro Glu Gly Ile Asp Ile Gly Glu Pro Leu Thr Asp Cys
              1395              1400              1405
Leu Lys Asp Val Asp Leu Ile Pro Pro Phe Asn Arg Met Leu Leu Glu
              1410              1415              1420
Val Thr Phe Gly Lys Leu Tyr Ala Trp Ala Val Gln Asn Ile Arg Asn
         1425              1430              1435              1440
Val Leu Met Asp Ala Ser Ala Thr Phe Lys Glu Leu Gly Ile Gln Pro
              1445              1450              1455
Val Pro Leu Gln Thr Ile Thr Asn Glu Asn Pro Ser Gly Pro Ser Leu
              1460              1465              1470
Gly Thr Ile Pro Gln Ala Arg Phe Leu Leu Val Met Leu Ser Met Leu
              1475              1480              1485
Thr Leu Gln His Gly Ala Asn Asn Leu Asp Leu Leu Leu Asn Ser Gly
              1490              1495              1500
Met Leu Ala Leu Thr Gln Thr Ala Leu Arg Leu Ile Gly Pro Ser Cys
         1505              1510              1515              1520
Asp Asn Val Glu Glu Asp Met Asn Ala Ser Ala Gln Gly Ala Ser Ala
              1525              1530              1535
Thr Val Leu Glu Glu Thr Arg Lys Glu Thr Ala Pro Val Gln Leu Pro
              1540              1545              1550
Val Ser Gly Pro Glu Leu Ala Ala Met Met Lys Ile Gly Thr Arg Val
              1555              1560              1565
Met Arg Gly Val Asp Trp Lys Trp Gly Asp Gln Asp Gly Pro Pro Pro
         1570              1575              1580
Gly Leu Gly Arg Val Ile Gly Glu Leu Gly Glu Asp Gly Trp Ile Arg
         1585              1590              1595              1600
Val Gln Trp Asp Thr Gly Ser Thr Asn Ser Tyr Arg Met Gly Lys Glu
              1605              1610              1615
Gly Lys Tyr Asp Leu Lys Leu Ala Glu Leu Pro Ala Ala Ala Gln Pro
              1620              1625              1630
Ser Ala Glu Asp Ser Asp Thr Glu Asp Asp Ser Glu Ala Glu Gln Thr
         1635              1640              1645
Glu Arg Asn Ile His Pro Thr Ala Met Met Phe Thr Ser Thr Ile Asn
         1650              1655              1660
Leu Leu Gln Thr Leu Cys Leu Ser Ala Gly Val His Ala Glu Ile Met
    1665              1670              1675              1680
Gln Ser Glu Ala Thr Lys Thr Leu Cys Gly Leu Leu Arg Met Leu Val
              1685              1690              1695
Glu Ser Gly Thr Thr Asp Lys Thr Ser Ser Pro Asn Arg Leu Val Tyr
              1700              1705              1710
Arg Glu Gln His Arg Ser Trp Cys Thr Leu Gly Phe Val Arg Ser Ile
              1715              1720              1725
Ala Leu Thr Pro Gln Val Cys Gly Ala Leu Ser Ser Pro Gln Trp Ile
         1730              1735              1740
Thr Leu Leu Met Lys Val Val Glu Gly His Ala Pro Phe Thr Ala Thr
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    1745              1750                1755                1760
  Ser Leu Gln Arg Gln Ile Leu Ala Val His Leu Leu Gln Ala Val Leu
                 1765              1770              1775
  Pro Ser Trp Asp Lys Thr Glu Arg Ala Arg Asp Met Lys Cys Leu Val
            1780              1785              1790
  Glu Lys Leu Phe Asp Phe Leu Gly Ser Leu Leu Thr Thr Cys Ser Ser
       1795              1800              1805
  Asp Val Pro Leu Leu Arg Glu Ser Thr Leu Arg Arg Arg Arg Val Arg
       1810              1815              1820
  Pro Gln Ala Ser Leu Thr Ala Thr His Ser Ser Thr Leu Ala Glu Glu
  1825              1830              1835              1840
  Val Val Ala Leu Leu Arg Thr Leu His Ser Leu Thr Gln Trp Asn Gly
                 1845              1850              1855
  Leu Ile Asn Lys Tyr Ile Asn Ser Gln Leu Arg Ser Ile Thr His Ser
            1860              1865              1870
  Phe Val Gly Arg Pro Ser Glu Gly Ala Gln Leu Glu Asp Tyr Phe Pro
            1875              1880              1885
  Asp Ser Glu Asn Pro Glu Val Gly Gly Leu Met Ala Val Leu Ala Val
       1890              1895              1900
  Ile Gly Gly Ile Asp Gly Arg Leu Arg Leu Gly Gly Gln Val Met His
  1905              1910              1915              1920
  Asp Glu Phe Gly Glu Gly Thr Val Thr Arg Ile Thr Pro Lys Gly Lys
                 1925              1930              1935
  Ile Thr Val Gln Phe Ser Asp Met Arg Thr Cys Arg Val Cys Pro Leu
            1940              1945              1950
  Asn Gln Leu Lys Pro Leu Pro Ala Val Ala Phe Asn Val Asn Asn Leu
         1955              1960              1965
  Pro Phe Thr Glu Pro Met Leu Ser Val Trp Ala Gln Leu Val Asn Leu
       1970              1975              1980
  Ala Gly Ser Lys Leu Glu Lys His Lys Ile Lys Lys Ser Thr Lys Gln
  1985              1990              1995              2000
  Ala Phe Ala Gly Gln Val Asp Leu Asp Leu Leu Arg Cys Gln Gln Leu
                 2005              2010              2015
  Lys Leu Tyr Ile Leu Lys Ala Gly Arg Ala Leu Leu Ser His Gln Asp
            2020              2025              2030
  Lys Leu Arg Gln Ile Leu Ser Gln Pro Ala Val Gln Glu Thr Gly Thr
            2035              2040              2045
  Val His Thr Asp Asp Gly Ala Val Val Ser Pro Asp Leu Gly Asp Met
       2050              2055              2060
  Ser Pro Glu Gly Pro Gln Pro Pro Met Ile Leu Leu Gln Gln Leu Leu
  2065              2070              2075              2080
  Ala Ser Ala Thr Gln Pro Ser Pro Val Lys Ala Ile Phe Asp Lys Gln
                 2085              2090              2095
  Glu Leu Glu Ala Ala Ala Leu Ala Val Cys Gln Cys Leu Ala Val Glu
            2100              2105              2110
  Ser Thr His Pro Ser Ser Pro Gly Phe Glu Asp Cys Ser Ser Ser Glu
            2115              2120              2125
  Ala Thr Thr Pro Val Ala Val Gln His Ile His Pro Ala Arg Val Lys
       2130              2135              2140
  Arg Arg Lys Gln Ser Pro Val Pro Ala Leu Pro Ile Val Val Gln Leu
  2145              2150              2155              2160
  Met Glu Met Gly Phe Ser Arg Arg Asn Ile Glu Phe Ala Leu Lys Ser
                 2165              2170              2175
  Leu Thr Gly Ala Ser Gly Asn Ala Ser Ser Leu Pro Gly Val Glu Ala
            2180              2185              2190
  Leu Val Gly Trp Leu Leu Asp His Ser Asp Ile Gln Val Thr Glu Leu
            2195              2200              2205
  Ser Asp Ala Asp Thr Val Ser Asp Glu Tyr Ser Asp Glu Glu Val Val
       2210              2215              2220
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Glu Asp Val Asp Asp Ala Ala Tyr Ser Met Ser Thr Gly Ala Val Val
2225                2230                2235                2240
Thr Glu Ser Gln Thr Tyr Lys Lys Arg Ala Asp Phe Leu Ser Asn Asp
                2245                2250                2255
Asp Tyr Ala Val Tyr Val Arg Glu Asn Ile Gln Val Gly Met Met Val
            2260                2265                2270
Arg Cys Cys Arg Ala Tyr Glu Glu Val Cys Glu Gly Asp Val Gly Lys
            2275                2280                2285
Val Ile Lys Leu Asp Arg Asp Gly Leu His Asp Leu Asn Val Gln Cys
        2290                2295                2300
Asp Trp Gln Gln Lys Gly Gly Thr Tyr Trp Val Arg Tyr Ile His Val
2305                2310                2315                2320
Glu Leu Ile Gly Tyr Pro Pro Pro Ser Ser Ser Ser His Ile Lys Ile
            2325                2330                2335
Gly Asp Lys Val Arg Val Lys Ala Ser Val Thr Thr Pro Lys Tyr Lys
            2340                2345                2350
Trp Gly Ser Val Thr His Gln Ser Val Gly Val Val Lys Ala Phe Ser
        2355                2360                2365
Ala Asn Gly Lys Asp Ile Ile Val Asp Phe Pro Gln Gln Ser His Trp
        2370                2375                2380
Thr Gly Leu Leu Ser Glu Met Glu Leu Val Pro Ser Ile His Pro Gly
2385                2390                2395                2400
Val Thr Cys Asp Gly Cys Gln Met Phe Pro Ile Asn Gly Ser Arg Phe
            2405                2410                2415
Lys Cys Arg Asn Cys Asp Asp Phe Asp Phe Cys Glu Thr Cys Phe Lys
        2420                2425                2430
Thr Lys Lys His Asn Thr Arg His Thr Phe Gly Arg Ile Asn Glu Pro
        2435                2440                2445
Gly Gln Ser Ala Val Phe Cys Gly Arg Ser Gly Lys Gln Leu Lys Arg
    2450                2455                2460
Cys His Ser Ser Gln Pro Gly Met Leu Leu Asp Ser Trp Ser Arg Met
2465                2470                2475                2480
Val Lys Ser Leu Asn Val Ser Ser Ser Val Asn Gln Ala Ser Arg Leu
            2485                2490                2495
Ile Asp Gly Ser Glu Pro Cys Trp Gln Ser Ser Gly Ser Gln Gly Lys
        2500                2505                2510
His Trp Ile Arg Leu Glu Ile Phe Pro Asp Val Leu Val His Arg Leu
        2515                2520                2525
Lys Met Ile Val Asp Pro Ala Asp Ser Ser Tyr Met Pro Ser Leu Val
        2530                2535                2540
Val Val Ser Gly Gly Asn Ser Leu Asn Asn Leu Ile Glu Leu Lys Thr
2545                2550                2555                2560
Ile Asn Ile Asn Pro Ser Asp Thr Thr Val Pro Leu Leu Asn Asp Tyr
        2565                2570                2575
Thr Glu Tyr His Arg Tyr Ile Glu Ile Ala Ile Lys Gln Cys Arg Ser
        2580                2585                2590
Ser Gly Ile Asp Cys Lys Ile His Gly Leu Ile Leu Leu Gly Arg Ile
    2595                2600                2605
Arg Ala Glu Glu Glu Asp Leu Ala Ala Val Pro Phe Leu Ala Ser Asp
    2610                2615                2620
Asn Glu Glu Glu Glu Asp Glu Lys Gly Asn Ser Gly Ser Leu Ile Arg
2625                2630                2635                2640
Lys Lys Ala Ala Gly Leu Glu Ser Ala Ala Thr Ile Arg Thr Lys Val
            2645                2650                2655
Phe Val Trp Gly Leu Asn Asp Lys Asp Gln Leu Gly Gly Leu Lys Gly
            2660                2665                2670
Ser Lys Ile Lys Val Pro Ser Phe Ser Glu Thr Leu Ser Ala Leu Asn
        2675                2680                2685
Val Val Gln Val Ala Gly Gly Ser Lys Ser Leu Phe Ala Val Thr Val
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              2690                  2695                  2700
   Glu Gly Lys Val Tyr Ala Cys Gly Glu Ala Thr Asn Gly Arg Leu Gly
 2705                 2710                 2715                 2720
   Leu Gly Ile Ser Ser Gly Thr Val Pro Ile Pro Arg Gln Ile Thr Ala
              2725                 2730                 2735
   Leu Ser Ser Tyr Val Val Lys Lys Val Ala Val His Ser Gly Gly Arg
              2740                 2745                 2750
   His Ala Thr Ala Leu Thr Val Asp Gly Lys Val Phe Ser Trp Gly Glu
              2755                 2760                 2765
   Gly Asp Asp Gly Lys Leu Gly His Phe Ser Arg Met Asn Cys Asp Lys
       2770                 2775                 2780
   Pro Arg Leu Ile Glu Ala Leu Lys Thr Lys Arg Ile Arg Asp Ile Ala
 2785                 2790                  2795                 2800
   Cys Gly Ser Ser His Ser Ala Ala Leu Thr Ser Ser Gly Glu Leu Tyr
              2805                 2810                 2815
   Thr Trp Gly Leu Gly Glu Tyr Gly Arg Leu Gly His Gly Asp Asn Thr
              2820                 2825                 2830
   Thr Gln Leu Lys Pro Lys Met Val Lys Val Leu Leu Gly His Arg Val
              2835                 2840                 2845
   Ile Gln Val Ala Cys Gly Ser Arg Asp Ala Gln Thr Leu Ala Leu Thr
       2850                 2855                 2860
   Asp Glu Gly Leu Val Phe Ser Trp Gly Asp Gly Asp Phe Gly Lys Leu
 2865                 2870                 2875                 2880
   Gly Arg Gly Gly Ser Glu Gly Cys Asn Ile Pro Gln Asn Ile Glu Arg
              2885                 2890                 2895
   Leu Asn Gly Gln Gly Val Cys Gln Ile Glu Cys Gly Ala Gln Phe Ser
              2900                 2905                 2910
   Leu Ala Leu Thr Lys Ser Gly Val Val Trp Thr Trp Gly Lys Gly Asp
       2915                 2920                 2925
   Tyr Phe Arg Leu Gly His Gly Ser Asp Val His Val Arg Lys Pro Gln
       2930                 2935                 2940
   Val Val Glu Gly Leu Arg Gly Lys Lys Ile Val His Val Ala Val Gly
 2945                 2950                 2955                 2960
   Ala Leu His Cys Leu Ala Val Thr Asp Ser Gly Gln Val Tyr Ala Trp
              2965                 2970                 2975
   Gly Asp Asn Asp His Gly Gln Gln Gly Asn Gly Thr Thr Thr Val Asn
       2980                 2985                 2990
   Arg Lys Pro Thr Leu Val Gln Gly Leu Glu Gly Gln Lys Ile Thr Arg
       2995                 3000                 3005
   Val Ala Cys Gly Ser Ser His Ser Val Ala Trp Thr Thr Val Asp Val
       3010                 3015                 3020
   Ala Thr Pro Ser Val His Glu Pro Val Leu Phe Gln Thr Ala Arg Asp
 3025                 3030                 3035                 3040
   Pro Leu Gly Ala Ser Tyr Leu Gly Val Pro Ser Asp Ala Asp Ser Ser
              3045                 3050                 3055
   Ala Ala Ser Asn Lys Ile Ser Gly Ala Ser Asn Ser Lys Pro Asn Arg
              3060                 3065                 3070
   Pro Ser Leu Ala Lys Ile Leu Leu Ser Leu Asp Gly Asn Leu Ala Lys
              3075                 3080                 3085
   Gln Gln Ala Leu Ser His Ile Leu Thr Ala Leu Gln Ile Met Tyr Ala
       3090                 3095                 3100
   Arg Asp Ala Val Val Gly Ala Leu Met Pro Ala Ala Met Ile Ala Pro
 3105                 3110                 3115                 3120
   Val Glu Cys Pro Ser Phe Ser Ser Ala Ala Pro Ser Asp Ala Ser Ala
              3125                 3130                 3135
   Met Ala Ser Pro Met Asn Gly Glu Glu Cys Met Leu Ala Val Asp Ile
       3140                 3145                 3150
   Glu Asp Arg Leu Ser Pro Asn Pro Trp Gln Glu Lys Arg Glu Ile Val
       3155                 3160                 3165
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Ser Ser Glu Asp Ala Val Thr Pro Ser Ala Val Thr Pro Ser Ala Pro
    3170              3175              3180
Ser Ala Ser Ala Arg Pro Phe Ile Pro Val Thr Asp Asp Leu Gly Ala
3185              3190              3195              3200
Ala Ser Ile Ile Ala Glu Thr Met Thr Lys Thr Lys Glu Asp Val Glu
        3205              3210              3215
Ser Gln Asn Lys Ala Ala Gly Pro Glu Pro Gln Ala Leu Asp Glu Phe
        3220              3225              3230
Thr Ser Leu Leu Ile Ala Asp Asp Thr Arg Val Val Val Asp Leu Leu
    3235              3240              3245
Lys Leu Ser Val Cys Ser Arg Ala Gly Asp Arg Gly Arg Asp Val Leu
    3250              3255              3260
Ser Ala Val Leu Ser Gly Met Gly Thr Ala Tyr Pro Gln Val Ala Asp
3265              3270              3275              3280
Met Leu Leu Glu Leu Cys Val Thr Glu Leu Glu Asp Val Ala Thr Asp
            3285              3290              3295
Ser Gln Ser Gly Arg Leu Ser Ser Gln Pro Val Val Val Glu Ser Ser
        3300              3305              3310
His Pro Tyr Thr Asp Asp Thr Ser Thr Ser Gly Thr Val Lys Ile Pro
    3315              3320              3325
Gly Ala Glu Gly Leu Arg Val Glu Phe Asp Arg Gln Cys Ser Thr Glu
    3330              3335              3340
Arg Arg His Asp Pro Leu Thr Val Met Asp Gly Val Asn Arg Ile Val
3345              3350              3355              3360
Ser Val Arg Ser Gly Arg Glu Trp Ser Asp Trp Ser Ser Glu Leu Arg
        3365              3370              3375
Ile Pro Gly Asp Glu Leu Lys Trp Lys Phe Ile Ser Asp Gly Ser Val
        3380              3385              3390
Asn Gly Trp Gly Trp Arg Phe Thr Val Tyr Pro Ile Met Pro Ala Ala
    .3395              3400              3405
Gly Pro Lys Glu Leu Leu Ser Asp Arg Cys Val Leu Ser Cys Pro Ser
    3410              3415              3420
Met Asp Leu Val Thr Cys Leu Leu Asp Phe Arg Leu Asn Leu Ala Ser
3425              3430              3435              3440
Asn Arg Ser Ile Val Pro Arg Leu Ala Ala Ser Leu Ala Ala Cys Ala
            3445              3450              3455
Gln Leu Ser Ala Leu Ala Ala Ser His Arg Met Trp Ala Leu Gln Arg
        3460              3465              3470
Leu Arg Lys Leu Leu Thr Thr Glu Phe Gly Gln Ser Ile Asn Ile Asn
    3475              3480              3485
Arg Leu Leu Gly Glu Asn Asp Gly Glu Thr Arg Ala Leu Ser Phe Thr
    3490              3495              3500
Gly Ser Ala Leu Ala Ala Leu Val Lys Gly Leu Pro Glu Ala Leu Gln
3505              3510              3515              3520
Arg Gln Phe Glu Tyr Glu Asp Pro Ile Val Arg Gly Gly Lys Gln Leu
        3525              3530              3535
Leu His Ser Pro Phe Phe Lys Val Leu Val Ala Leu Ala Cys Asp Leu
        3540              3545              3550
Glu Leu Asp Thr Leu Pro Cys Cys Ala Glu Thr His Lys Trp Ala Trp
    3555              3560              3565
Phe Arg Arg Tyr Cys Met Ala Ser Arg Val Ala Val Ala Leu Asp Lys
    3570              3575              3580
Arg Thr Pro Leu Pro Arg Leu Phe Leu Asp Glu Val Ala Lys Lys Ile
3585              3590              3595              3600
Arg Glu Leu Met Ala Asp Ser Glu Asn Met Asp Val Leu His Glu Ser
            3605              3610              3615
His Asp Ile Phe Lys Arg Glu Gln Asp Glu Gln Leu Val Gln Trp Met
        3620              3625              3630
Asn Arg Arg Pro Asp Asp Trp Thr Leu Ser Ala Gly Gly Ser Gly Thr
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              3635        .    .            3640                   3645
    Ile Tyr Gly Trp Gly His Asn His Arg Gly Gln Leu Gly Gly Ile Glu
      3650                        3655                   3660
    Gly Ala Lys Val Lys Val Pro Thr Pro Cys Glu Ala Leu Ala Thr Leu
    3665          .        3670    .             3675              3680
    Arg Pro Val Gln Leu Ile Gly Gly Glu Gln Thr Leu Phe Ala Val Thr
              3685                        3690                   3695
    Ala Asp Gly Lys Leu Tyr Ala Thr Gly Tyr Gly Ala Gly Gly Arg Leu
                  3700                        3705              3710
    Gly Ile Gly Gly Thr Glu Ser Val Ser Thr Pro Thr Leu Leu Glu Ser
              3715                        3720                   3725
    Ile Gln His Val Phe Ile Lys Lys Val Ala Val Asn Ser Gly Gly Lys
          3730                        3735                   3740
    His Cys Leu Ala Leu Ser Ser Glu Gly Glu Val Tyr Ser Trp Gly Glu
    3745                        3750                   3755              3760
    Ala Glu Asp Gly Lys Leu Gly His Gly Asn Arg Ser Pro Cys Asp Arg
                      3765                   3770              3775
    Pro Arg Val Ile Glu Ser Leu Arg Gly Ile Glu Val Val Asp Val Ala
                  3780                   3785              3790
    Ala Gly Gly Ala His Ser Ala Cys Val Thr Ala Ala Gly Asp Leu Tyr
          .   3795                   3800                   3805
    Thr Trp Gly Lys Gly Arg Tyr Gly Arg Leu Gly His Ser Asp Ser Glu
          3810           .        3815                   3820
    Asp Gln Leu Lys Pro Lys Leu Val Glu Ala Leu Gln Gly His Arg Val
    3825                        3830                   3835              3840
    Val Asp Ile Ala Cys Gly Ser Gly Asp Ala Gln Thr Leu Cys Leu Thr
                  3845                        3850                   3855
    Asp Asp Asp Thr Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu
              3860                        3865                   3870
    Gly Arg Gly Gly Ser Asp Gly Cys Lys Val Pro Met Lys Ile Asp Ser
              3875                        3880                   3885
    Leu Thr Gly Leu Gly Val Val Lys Val Glu Cys Gly Ser Gln Phe Ser
          3890                        3895                   3900
    Val Ala Leu Thr Lys Ser Gly Ala Val Tyr Thr Trp Gly Lys Gly Asp
    3905                        3910                   3915              3920
    Tyr His Arg Leu Gly His Gly Ser Asp Asp His Val Arg Arg Pro Arg
                      3925                   3930                   3935
    Gln Val Gln Gly Leu Gln Gly Lys Lys Val Ile Ala Ile Ala Thr Gly
                  3940                   3945                   3950
    Ser Leu His Cys Val Cys Cys Thr Glu Asp Gly Glu Val Tyr Thr Trp
              3955                        3960                   3965
    Gly Asp Asn Asp Glu Gly Gln Leu Gly Asp Gly Thr Thr Asn Ala Ile
          3970                        3975                   3980
    Gln Arg Pro Arg Leu Val Ala Ala Leu Gln Gly Lys Lys Val Asn Arg
    3985                        3990                   3995    .            4000
    Val Ala Cys Gly Ser Ala His Thr Leu Ala Trp Ser Thr Ser Lys Pro
                      4005                   4010                   4015
    Ala Ser Ala Gly Lys Leu Pro Ala Gln Val Pro Met Glu Tyr Asn His
                  4020                   4025                   4030
    Leu Gln Glu Ile Pro Ile Ile Ala Leu Arg Asn Arg Leu Leu Leu Leu
              4035                        4040                   4045
    His His Leu Ser Glu Leu Phe Cys Pro Cys Ile Pro Met Phe Asp Leu
          4050                        4055                   4060
    Glu Gly Ser Leu Asp Glu Thr Gly Leu Gly Pro Ser Val Gly Phe Asp
    4065                        4070                   4075              4080
    Thr Leu Arg Gly Ile Leu Ile Ser Gln Gly Lys Glu Ala Ala Phe Arg
                      4085                   4090                   4095
    Lys Val Val Gln Ala Thr Met Val Arg Asp Arg Gln His Gly Pro Val
                  4100                   4105         .          4110
```

```
Val Glu Leu Asn Arg Ile Gln Val Lys Arg Ser Arg Ser Lys Gly Gly
    4115                   4120                   4125
Leu Ala Gly Pro Asp Gly Thr Lys Ser Val Phe Gly Gln Met Cys Ala
    4130                   4135                   4140
Lys Met Ser Ser Phe Gly Pro Asp Ser Leu Leu Leu Pro His Arg Val
4145                   4150                   4155                   4160
Trp Lys Val Lys Phe Val Gly Glu Ser Val Asp Asp Cys Gly Gly Gly
                4165                   4170                   4175
Tyr Ser Glu Ser Ile Ala Glu Ile Cys Glu Glu Leu Gln Asn Gly Leu
            4180                   4185                   4190
Thr Pro Leu Leu Ile Val Thr Pro Asn Gly Arg Asp Glu Ser Gly Ala
        4195                   4200                   4205
Asn Arg Asp Cys Tyr Leu Leu Ser Pro Ala Ala Arg Ala Pro Val His
    4210                   4215                   4220
Ser Ser Met Phe Arg Phe Leu Gly Val Leu Leu Gly Ile Ala Ile Arg
4225                   4230                   4235                   4240.
Thr Gly Ser Pro Leu Ser Leu Asn Pro Cys Arg Ala Leu Ser Gly Ser
                4245                   4250                   4255
Ser Trp Leu Gly  *
            4260
```

```
<210> 1356
<211> 64
<212> PRT
<213> Homo sapiens
```

```
<400> 1356
Met Ser Lys Val Lys Pro Leu His Gly Ala Pro Ala Pro Leu Leu Val
1               5                   10                  15
Ser Leu Cys Leu Leu Ser Trp Cys Gly Leu Pro Gly Val Ile Val His
            20                  25                  30
Val Thr Tyr Val Ser Pro Arg His Leu Ser Asn Thr Arg Ser Gly Leu
        35                  40                  45
Glu Ser Ile His Gly Cys Asp Pro Met His Gly Ser Pro Val Gly  *
    50                  55                  60          63
```

```
<210> 1357
<211> 111
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(111)
<223> Xaa = any amino acid or nothing
```

```
<400> 1357
Met Ile Phe Asn Lys Ala Ala Asp Thr Leu Gly Asp Val Trp Ile Leu
1               5                   10                  15
Leu Ala Thr Leu Lys Val Leu Ser Leu Leu Trp Leu Leu Tyr Tyr Val
            20                  25                  30
Ala Ser Thr Thr Arg Gln Pro His Ala Val Leu Tyr Gln Asp Pro His
        35                  40                  45
Ala Gly Pro Leu Trp Val Arg Ser Ser Leu Val Leu Phe Gly Ser Cys
```

```
              50                    55                      60
Thr Phe Cys Leu Asn Ile Phe Arg Val Gly Tyr Asp Val Ser His Ile
65                           70                  75                  80
Arg Cys Lys Ser Gln Leu Asp Leu Val Phe Pro Val Ile Glu Met Val
                        85                  90                  95
Phe Ile Gly Val Gln Thr Cys Val Leu Trp Lys His Cys Arg Xaa
                   100                    105             110 111
```

```
        <210> 1358
        <211> 47
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1358
Met Ala Leu Leu Ile Ser Thr Cys Ile Asn Lys Ala Val Leu Arg Phe
 1               5                  10                      15
Thr Leu Ser Ser Met Asn Asn Lys Ile Ile Leu Ser Trp Tyr Ser Phe
                  20                  25                  30
Asn Val Ile Leu Ile Phe His Glu Asn Val Val Tyr Tyr Ile *
            35                  40                      45  46
```

```
        <210> 1359
        <211> 73
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1359
Met Phe Ser Pro Cys Gly Pro Ala Ser Leu Gly Leu Leu Phe Val Leu
 1               5                  10                      15
Cys Thr His Ser Gln Ala Leu Ala Phe Phe Trp Gly Pro Ser Ser Leu
                  20                  25                  30
Ile Gly Ala Ser Gly Phe Leu Leu Gln Arg Thr Ser Leu Leu Arg His
            35                  40                  45
Val Phe Leu Gly Leu Val Tyr Ala Cys Trp Ala His Trp Leu Tyr Cys
      50                  55                  60
Ser Ser Arg Pro Val Thr Lys Glu *
65                  70      72
```

```
        <210> 1360
        <211> 57
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1360
Met Lys Thr Gly Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
 1               5                  10                      15
Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
                  20                  25                  30
Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val
            35                  40                  45
```

```
Phe Phe Phe Ala Phe Phe Arg Thr  *
    50                  55  56
```

```
<210> 1361
<211> 77
<212> PRT
<213> Homo sapiens
```

```
<400> 1361
Met Phe Val Leu Phe Leu Ile Leu Val Leu Arg Asn His Phe Leu Val
1                   5                   10                  15
Thr Ile Lys Tyr Gly Val Gly Cys Gly Phe Ile Ile Ser Val Cys Leu
            20                  25                  30
Arg Ala Lys His Phe Asn Phe Asp Glu Ala Gln Phe Val Ser Phe Phe
        35                  40                  45
Leu Cys Asp Ser Cys Phe Cys Leu Leu Arg Asn Leu Pro Thr Gln Arg
    50                  55                  60
Leu Gln Arg Phe Phe Phe Cys Trp Phe Phe Leu Ile  *
65                  70                  75  76
```

```
<210> 1362
<211> 106
<212> PRT
<213> Homo sapiens
```

```
<400> 1362
Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
1                   5                   10                  15
Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
            20                  25                  30
Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Leu Pro
        35                  40                  45
Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
    50                  55                  60
Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
65                  70                  75                  80
Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Ala Ala Leu
                85                  90                  95
Leu Lys Ile Met Cys Lys Gln Leu Leu  *
                100                 105
```

```
<210> 1363
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<400> 1363
Met Ala Trp Lys Pro Leu Gly Arg Gln Ala Val Leu Arg Glu Thr Pro
1                   5                   10                  15
Leu Ala Thr Leu Cys Ile Asp Arg Arg Gln Val Ser Ser Ser Leu Val
```

```
                    20                      25                      30
Gln Glu Gly Phe His Ser Lys Ser Cys His Cys Leu Gly Asp Ser Phe
            35                      40                      45
Arg Glu Lys Asn Gln Val Val Gly  *
        50                  55  56
```

```
        <210> 1364
        <211> 75
        <212> PRT
        <213> Homo sapiens


        <400> 1364
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1               5                  10                      15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
                20                  25                      30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
            35                      40                      45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
        50                  55                      60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu  *
 65                  70                  74
```

```
        <210> 1365
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 1365
Met Lys Leu Gln Val Phe Ala Val Asn Ile Thr Ala Leu Lys Ala Ala
 1               5                  10                      15
Arg Leu Glu Leu Phe Val Leu Pro Gly Gly Phe Ile Val Phe Leu Ala
                20                  25                      30
Ser Glu Leu Lys Leu Gln Thr Ser Leu Glu Ser Val Ala Pro His Lys
            35                      40                      45
Asp Ser Met Ser Leu Lys Ser Glu His  *
        50                  55      57
```

```
        <210> 1366
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 1366
Met His Cys Ser Phe Ile Ser Ala Phe Leu Leu Pro Val Phe Leu Ser
 1               5                  10                      15
Leu Thr Val Ser Ala Ser Ile Phe Val Ser Leu His Ser Phe Pro Leu
                20                  25                      30
Ser Leu Ser Tyr Phe Ser Phe Leu Gly Ser Phe Phe Leu Ser Val Cys
            35                      40                      45
```

781

```
Leu Asp Leu Tyr Ser Ser Leu Phe Phe  *
    50              55      57
```

```
        <210> 1367
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1367
Met Met Gly Arg Ile Phe Ala Ala Leu Ser Leu Ile Lys Leu Met Met
1               5               10              15
Tyr Ser Leu Phe Pro Val Ile Glu Ser Ser Leu Cys His Leu Glu Val
            20              25              30
Trp Ala Trp Arg His Ile Trp Pro Thr Ala Gly Arg Gly Val Pro  *
        35              40              45      47
```

```
        <210> 1368
        <211> 96
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1368
Met Gly Arg Arg Lys Ser Phe Phe Phe Leu Phe Leu Glu Cys Arg Gln
1               5               10              15
Lys Gly Leu His Ile Pro Leu Cys Thr Cys Ser His Ala Pro Arg Pro
            20              25              30
Pro Leu Ala Ala Pro Ser Ala Leu Ile Leu Pro Pro Glu Ile Ser His
        35              40              45
Thr Ser Arg Gly Ile Leu Leu Ser His Gly Leu Phe Pro Thr Ala Thr
    50              55              60
Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Thr Val Thr
65              70              75              80
Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Ser Thr  *
                85              90              95
```

```
        <210> 1369
        <211> 76
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1369
Met Trp Asp His Phe Ile Leu Ser Arg Val Leu Phe Cys Leu Phe Val
1               5               10              15
Phe His Ser Arg Val Leu Lys Asp His Met Ala Ser Asn Ala Tyr Lys
            20              25              30
Ser Ala Leu Phe Phe Thr Val Arg Tyr Leu Glu Thr Lys Gln Phe Leu
        35              40              45
Leu Arg Cys Cys Cys Trp Pro Asp Ala Val Ala His Ala Cys Asn Thr
    50              55              60
Ser Thr Leu Arg Gly Gln Gly Arg His Ile Thr  *
```

65   70   75


```
<210> 1370
<211> 79
<212> PRT
<213> Homo sapiens


<400> 1370
```

Met Cys Ser Cys Leu His Thr Leu Gln Arg Arg Phe Leu His Phe Val
1   5   10   15
Ser Ile Ala Leu Ser Lys Ile Trp Gln Asn Asn Ala Phe His Leu Gln
          20   25   30
Val Glu Val Ser Trp Leu Ser Thr Phe Val Asp Lys Val Ile Val Met
          35   40   45
Arg Leu Ile Ser Ser Lys His Phe Thr Asp Thr Met Asn Asp Arg Val
     50   55   60
His Ser Phe Leu Asn Asp Ile Gly Phe Val Cys Leu Leu Ser   *
65   70   75   78


```
<210> 1371
<211> 227
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(227)
<223> Xaa = any amino acid or nothing


<400> 1371
```

Met Leu Tyr Phe Gln Leu Val Ile Met Ala Gly Thr Val Leu Leu Ala
1   5   10   15
Tyr Tyr Phe Glu Cys Thr Asp Thr Phe Gln Val His Ile Gln Gly Phe
          20   25   30
Phe Cys Gln Asp Gly Asp Leu Met Lys Pro Tyr Pro Gly Thr Glu Glu
          35   40   45
Glu Ser Phe Ile Thr Pro Leu Val Leu Tyr Cys Val Leu Ala Ala Thr
     50   55   60
Pro Thr Ala Ile Ile Phe Ile Gly Glu Ile Ser Met Tyr Phe Ile Lys
65   70   75   80
Ser Thr Arg Glu Ser Leu Ile Ala Gln Glu Lys Thr Ile Leu Thr Gly
               85   90   95
Glu Cys Cys Tyr Leu Asn Pro Leu Leu Arg Arg Ile Ile Arg Phe Thr
          100   105   110
Gly Val Phe Ala Phe Gly Leu Phe Ala Thr Asp Ile Phe Val Asn Ala
     115   120   125
Gly Gln Val Val Thr Gly His Leu Thr Pro Tyr Phe Leu Thr Val Cys
     130   135   140
Lys Pro Asn Tyr Thr Ser Ala Asp Cys Gln Ala His His Gln Phe Ile
145   150   155   160
Asn Asn Gly Asn Ile Cys Thr Gly Asp Leu Gly Ser Asp Arg Lys Gly
               165   170   175
Ser Glu Ile Leu Ser Leu Gln Thr Arg Cys Ser Glu His Leu Leu Arg
          180   185   190

```
Leu Ile Trp Pro Arg Cys Ile Phe Thr Arg His Asn Gln Gly Arg Gly
        195                 200                 205
Gly Ser Ser Met Gly Pro Ser Arg Trp Leu Cys Leu Gly Thr Phe Leu
    210                 215                 220
His Xaa Leu
225     227



    <210> 1372
    <211> 99
    <212> PRT
    <213> Homo sapiens


    <400> 1372
Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
  1               5                 10                  15
Cys Leu Tyr Leu Ser Leu Ser Leu Tyr Leu Arg Ser Phe Phe Cys Leu
            20                  25                  30
Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
        35                  40                  45
Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
    50                  55                  60
Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65                  70                  75                  80
Ile Gln Met Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Gln Arg Gly
                85                  90                  95
Trp Ala  *
    98



    <210> 1373
    <211> 69
    <212> PRT
    <213> Homo sapiens


    <400> 1373
Met Leu His Thr Pro Gln Thr Cys Arg Pro Gly Leu Cys Val Leu Ala
  1               5                 10                  15
Ser Arg Pro Val Leu Tyr Thr Leu Cys Leu Leu Ile Pro Val Leu Cys
            20                  25                  30
Gly Asp Thr Phe Trp Ala Ser Trp Ser Leu Leu Thr Lys Ala Thr Pro
        35                  40                  45
Ser Ser Leu Leu Cys Leu Ser Asp Lys Ser Ile Pro Ser Leu Ile Ser
    50                  55                  60
Lys Gly Asp Ser  *
 65          68



    <210> 1374
    <211> 296
    <212> PRT
    <213> Homo sapiens
```

```
        <400> 1374
Met Arg Ser Lys Ile Met Ile His Ile His Ile Phe Leu Leu Ala Ser
 1                5                  10                      15
Phe Arg Phe Lys Glu His Val Gln Asn Asn Leu Pro Arg Asp Leu Leu
            20                  25                  30
Thr Gly Glu Gln Phe Ile Gln Leu Arg Arg Glu Leu Ala Ser Val Asn
        35                  40                  45
Gly His Ser Gly Asp Asp Gly Pro Pro Gly Asp Asp Leu Pro Ser Gly
    50                  55                  60
Ile Glu Asp Ile Thr Asp Pro Ala Lys Leu Ile Thr Glu Ile Glu Asn
65                  70                  75                      80
Met Arg His Arg Ile Ile Glu Ile His Gln Glu Met Phe Asn Tyr Asn
            85                  90                  95
Glu His Glu Val Ser Lys Arg Trp Thr Phe Glu Glu Gly Ile Lys Arg
            100                 105                 110
Pro Tyr Phe His Val Lys Pro Leu Glu Lys Ala Gln Leu Lys Asn Trp
        115                 120                 125
Lys Glu Tyr Leu Glu Phe Glu Ile Glu Asn Gly Thr His Glu Arg Val
        130                 135                 140
Val Val Leu Phe Glu Arg Cys Val Ile Ser Cys Ala Leu Tyr Glu Glu
145                 150                 155                 160
Phe Trp Ile Lys Tyr Ala Lys Tyr Met Glu Asn His Ser Ile Glu Gly
            165                 170                 175
Val Arg His Val Phe Ser Arg Ala Cys Thr Ile His Leu Pro Lys Lys
            180                 185                 190
Pro Met Val His Met Leu Trp Ala Ala Phe Glu Glu Gln Gln Gly Asn
            195                 200                 205
Ile Asn Glu Ala Arg Asn Ile Leu Lys Thr Phe Glu Glu Cys Val Leu
    210                 215                 220
Gly Leu Ala Met Val Arg Leu Arg Arg Val Ser Leu Glu Arg Arg His
225                 230                 235                 240
Gly Asn Leu Glu Glu Ala Glu His Leu Leu Gln Asp Ala Ile Lys Asn
            245                 250                 255
Ala Lys Ser Asn Asn Glu Ser Ser Phe Tyr Ala Val Lys Leu Ala Arg
            260                 265                 270
His Leu Phe Lys Ile Gln Lys Asn Leu Pro Lys Ser Arg Lys Val Leu
        275                 280                 285
Leu Glu Ala Ile Glu Arg Asp Lys
    290                 295 296


        <210> 1375
        <211> 75
        <212> PRT
        <213> Homo sapiens


        <400> 1375
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1                5                  10                      15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
            20                  25                  30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
        35                  40                  45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
    50                  55                  60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu  *
65                  70                  74
```

```
<210> 1376
<211> 61
<212> PRT
<213> Homo sapiens


<400> 1376
Met Cys Tyr Glu Trp Val Ile Thr Thr Val Gly Ser Trp Ala Leu Leu
1               5                   10                  15
Cys Gln Arg Thr Leu Trp Lys Pro His Arg Thr Tyr Gln Lys Leu Thr
            20                  25                  30
Leu Asn Ser Cys Pro Thr Pro Ile Val Glu Gly Gly Leu Glu Ser Phe
        35                  40                  45
Pro Ser Pro Asn Phe Pro Ser Cys Ile Ser Trp Ser  *
    50                  55                  60


<210> 1377
<211> 110
<212> PRT
<213> Homo sapiens


<400> 1377
Met Trp Val Trp Val Thr Ala Ala His Leu Leu Cys Ser Leu Ala Ala
1               5                   10                  15
Ser Phe Val Lys Lys Lys Ser Leu Gly Lys Leu Arg Val Asp Val Cys
            20                  25                  30
Arg Ser Pro Pro Pro Glu Gly Ser Arg Thr Gln Thr Ser Ser Ser Leu
        35                  40                  45
Phe Tyr Arg Gly Gly Asn Gly Ala Ser Tyr Ala Asn Tyr Ile Leu His
        50                  55                  60
His Thr Met Ala Leu Glu Gly Gln Arg Ser His Trp Ala Pro Cys Val
65                  70                  75                  80
Ser Cys Pro Ala Gln Gly Leu Ala Leu Arg Arg Gly Cys Thr Thr Phe
            85                  90                  95
Leu His Lys Asn Lys Gly Gly Thr Glu Ala Val Thr Val  *
            100                 105                 109


<210> 1378
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1378
Met Phe Ala Leu Gln Lys Met Arg Leu Cys Val Leu Trp Arg Val Leu
1               5                   10                  15
Glu Glu Gly Gly Ile Thr Arg Phe Gly Asp Ser His Ser Asp Ser Leu
            20                  25                  30
Leu Phe Ser Val Thr Phe Arg Ile His Arg Asp Met Phe Cys  *
        35                  40                  45  46
```

<210> 1379
<211> 140
<212> PRT
<213> Homo sapiens

<400> 1379
Met Arg His Pro Ser Pro Trp Pro Phe Leu Phe Phe Cys Phe Val Pro
1   5   10   15
Ala Thr Leu Arg Ser Phe Pro Ser Gly Leu Val Trp Pro Gly Cys Trp
                20   25   30
Trp Glu Pro Arg Ala Ser Pro Ser Ser Leu Ala Pro Gly Met Lys Ser
            35   40   45
Gln Leu Trp Ala Ala Ala Trp Arg Pro Gly Thr Ser Leu Gln Gly Met
        50   55   60
Ala Gly Ile Leu Arg Gln Ala Ala Glu Ala Gly Pro Ala Gly Val Ala
65   70   75   80
Leu Ile Leu Ile Lys Gly Thr Gly Asn Glu Glu Pro Leu Gly Pro Leu
                85   90   95
Pro Ser Arg Cys Leu Cys Pro Pro Pro Glu Glu Pro Arg Phe His Trp
            100   105   110
Ala Leu Gly Lys Glu Pro Thr Gly Pro Gly Arg Pro Gln Pro Val Gln
        115   120   125
His His Ile Glu Gly Pro His Pro Val Gly Phe Gly
    130   135   140

<210> 1380
<211> 50
<212> PRT
<213> Homo sapiens   :

<400> 1380
Met Gln Glu Pro Leu Thr Phe Leu Gln Leu Leu Arg Trp Gln Leu Phe
1   5   10   15
Pro Leu Pro Asp Ser Pro Thr Phe Ser Ala Phe Ile Leu Val Gly Leu
                20   25   30
Cys Arg Met Leu Phe Ala Gly Arg Ile Ile Ser Gly Leu Thr Arg Val
        35   40   45
Ile *
49

<210> 1381
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1381
Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
1   5   10   15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
                20   25   30

```
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
        35                      40                  45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
        50                      55                  60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu  *
65                      70                  75      77
```

```
        <210> 1382
        <211> 57
        <212> PRT
        <213> Homo sapiens


        <400> 1382
Met Leu Thr Thr Leu Leu Leu Leu Leu His Lys Arg Ile Phe Arg Gly
1                 5                  10                  15
Asn Phe His Ile Leu His Phe His Ile Cys Ile Gln Ile Lys Lys Gln
              20                  25                  30
Ile Pro Ile Leu Glu Asn Asp Leu Phe Lys Met Tyr Thr Val Ser Asn
        35                      40                  45
Lys Ala Lys Thr Arg Thr Trp Ser  *
        50                  55  56
```

```
        <210> 1383
        <211> 64
        <212> PRT
        <213> Homo sapiens


        <400> 1383
Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
1                 5                  10                  15
Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
              20                  25                  30
Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
        35                      40                  45
Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu  *
        50                  55                  60      63
```

```
        <210> 1384
        <211> 67
        <212> PRT
        <213> Homo sapiens


        <400> 1384
Met Leu Ser Phe Val Pro Leu Leu Ser Ser Trp Leu Gly Thr Trp Ile
1                 5                  10                  15
Thr Asp Arg Gly Ala Ala Gly Ser Cys Gln Ala Glu Ala Pro Arg Leu
              20                  25                  30
Ala Gly Glu Thr Ala Gly Gln Arg Val Trp Glu Arg Gly Met Gln Arg
        35                      40                  45
Ala Ala Ala Val Gly Lys Ile Leu Asp Pro Lys Gly His Thr Ala Ser
```

```
         50                    55                    60
Pro His  *
65  66
```

```
         <210> 1385
         <211> 50
         <212> PRT
         <213> Homo sapiens


         <400> 1385
Met Leu Val Leu Phe Val Ala Thr Trp Ser Asp Leu Gly Leu Cys Lys
1                5                  10                  15
Lys Arg Pro Lys Pro Gly Gly Trp Asn Thr Gly Gly Cys Arg Tyr Pro
            20                  25                  30
Gly Leu Ala Cys Pro Leu Gly Arg Pro Pro Gly Gln Trp Gly Ala Thr
            35                  40                  45
Val *
49
```

```
         <210> 1386
         <211> 123
         <212> PRT
         <213> Homo sapiens


         <400> 1386
Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1                5                  10                  15
Tyr Ser Arg Gly Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val
            20                  25                  30
Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu Leu
            35                  40                  45
Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn
      50                  55                  60
Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu
65                  70                  75                  80
Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro
                  85                  90                  95
Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val
            100                 105                 110
Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe
            115                 120         123
```

```
         <210> 1387
         <211> 65
         <212> PRT
         <213> Homo sapiens


         <400> 1387
Met Pro Arg Leu Phe Ser Pro Leu Ile Leu Leu His Thr Leu Ser Leu
1                5                  10                  15
```

```
Lys Ser His Glu Thr Phe Gln Trp Ser Gln Phe Leu Tyr Gln Asn Thr
            20                  25                  30
Arg Asp Ala Cys Phe Thr Trp Thr Tyr Ile Phe Pro Arg Ile Thr Trp
        35                  40                  45
Ile Asn Glu Trp Cys Cys Phe Pro Val Val Gly Glu Lys Leu Gly Thr
    50                  55                  60              64
*
```

```
<210> 1388
<211> 56
<212> PRT
<213> Homo sapiens
```

```
<400> 1388
Met Gly Leu Leu Asn Lys Tyr Ala Ser Val Ile Ile Tyr Leu Tyr Phe
1               5                   10                  15
Ser Leu Val Lys Ser Glu Ser Leu Phe His Leu Met Tyr Leu Pro Ser
            20                  25                  30
Leu Phe Ile Gln Phe Phe Leu Gly Ile Phe Ser Leu Lys Thr His Cys
        35                  40                  45
Cys Thr Ser Lys Phe Asp Ser  *
    50                  55
```

```
<210> 1389
<211> 76
<212> PRT
<213> Homo sapiens
```

```
<400> 1389
Met Arg Arg Arg Ala Leu Lys His Trp Val Ala Leu Cys Leu Thr Trp
1               5                   10                  15
Thr Ala Gly Glu Ser Thr Gly Pro Trp Pro Ser Pro Glu Pro Ser Val
            20                  25                  30
Arg Ala Lys Glu Ala Asp Pro Ser Gly Arg Arg Ser Leu Gly Ser Pro
        35                  40                  45
Gly Leu Glu Cys Gly Pro Arg Leu Thr Arg Gly Ser Gly Arg Gln Cys
    50                  55                  60
Asp Gly Pro Arg Gly Ile Cys His Ala Leu Gly  *
65                  70                  75
```

```
<210> 1390
<211> 149
<212> PRT
<213> Homo sapiens
```

```
<400> 1390
Met Ala Ala Ser Pro Ala Arg Pro Ala Val Leu Ala Leu Thr Gly Leu
1               5                   10                  15
Ala Leu Leu Leu Leu Leu Cys Trp Gly Pro Gly Gly Ile Ser Gly Asn
```

```
                    20                      25                      30
Lys Leu Lys Leu Met Leu Gln Lys Arg Glu Ala Pro Val Pro Thr Lys
            35                      40                      45
Thr Lys Val Ala Val Asp Glu Asn Lys Ala Lys Glu Phe Leu Gly Ser
        50                      55                      60
Leu Lys Arg Gln Lys Arg Gln Leu Trp Asp Arg Thr Arg Pro Glu Val
65                      70                      75                      80
Gln Gln Trp Tyr Gln Gln Phe Leu Tyr Met Gly Phe Asp Glu Ala Lys
                85                      90                      95
Phe Glu Asp Asp Ile Thr Tyr Trp Leu Asn Arg Asp Arg Asn Gly His
            100                     105                     110
Glu Tyr Tyr Gly Asp Tyr Tyr Gln Arg His Tyr Asp Glu Asp Ser Ala
        115                     120                     125
Ile Gly Pro Arg Ser Pro Tyr Gly Phe Arg His Gly Ala Ser Val Asn
    130                     135                     140
Tyr Asp Asp Tyr   *
145             148
```

```
        <210> 1391
        <211> 125
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1391
Met Val Met Gly Trp His Trp Pro Gln Gly Leu Gly Leu Ser Leu Ser
1                   5                       10                      15
Leu Cys Pro Ser Asp Leu Asp Gly Trp Val Ser Arg Glu Val Pro Leu
                20                      25                      30
Leu Asp Arg Pro Gln Ala Leu Pro Pro Cys Val Gln Ile Leu Ser Ala
            35                      40                      45
Pro Ala Ser Thr Ser Cys Pro Ser Ala Leu Ser Pro Trp His Asp Pro
        50                      55                      60
Gly Leu Pro Val Thr Ser Gln Asn His Phe Ala Trp Phe Pro Leu Gly
65                      70                      75                      80
Ser Lys Ala Cys Leu Gly Pro Ser Ile Asp Arg Glu Ala Val Lys Glu
                85                      90                      95
Ile Asn Ala Glu Glu Gly Val Arg Arg Gln Thr Gln Gly Pro Ile Lys
            100                     105                     110
Val Arg Lys Gln Ala Gly Cys Gly Gly Ser Cys Leu   *
        115                     120                     124
```

```
        <210> 1392
        <211> 56
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1392
Met Ile Ile Gln Ile Cys Thr Ile Ser Arg Ile Glu Phe Ile Cys Leu
 1                   5                       10                      15
Cys Val Cys Val Phe Phe Arg Val Ile Trp Leu Pro Val Glu Phe Tyr
                20                      25                      30
Leu Glu Thr Lys Ile Leu Lys Val Val Phe Val Ile Val Phe Val Pro
            35                      40                      45
```

```
Ile Ile Leu Pro Leu His Pro  *
    50                  55
```

```
    <210> 1393
    <211> 55
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1393
Met Glu Ala Trp Lys Ala Leu Ile Gly Leu Phe Pro Leu Arg Ser Ser
1               5                  10                  15
Ala Ser Pro Phe Thr Tyr His Cys Trp Glu Pro Ala Gln Pro Ala His
            20                  25                  30
Gln Glu Phe His Ser Thr Ile Ala Leu Arg Gly Arg Gly Gly Lys Pro
        35                  40                  45
Gln Glu Glu Ser Ser Pro  *
    50              54
```

```
    <210> 1394
    <211> 51
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1394
Met Ser Leu Asn Pro Glu Phe Leu Trp Leu Lys Trp Phe Ser Leu Leu
1               5                  10                  15
Leu Arg Gly Arg Arg Asn Ser Cys Leu Ile Ala Leu Lys Gly Tyr His
            20                  25                  30
Ser Val Met Ile Phe His Leu Pro Leu Ile Pro Ser Ser Val Thr Ser
        35                  40                  45
Cys His  *
    50
```

```
    <210> 1395
    <211> 105
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1395
Met Pro Cys Phe Met Pro Asn Pro Gly Ala Val Leu Gly Leu Pro Pro
1               5                  10                  15
Trp Leu Leu Ser Thr Gln Arg Leu Thr His Thr Arg Ala Tyr Leu Asn
            20                  25                  30
Trp Leu Ala Ser Asp Arg Trp Met Arg Arg His Trp Arg Thr Gly Glu
        35                  40                  45
Ser Gln Val Glu Arg Ser Ser Arg Pro Trp Trp Glu Thr Gln His Leu
    50                  55                  60
Ser Pro Ala Ser Leu Gly Arg Arg Pro Ala Pro Gly Leu Gln Glu His
65                  70                  75                  80
Phe Leu Asp Thr Asp Gly Lys Val Ala Asp Ser Gly Leu Gln Met Gly
```

```
                    85                    90                         95
Phe Gly Leu Leu Ser Leu Pro Ser Ile
                100                  105



        <210> 1396
        <211> 49
        <212> PRT
        <213> Homo sapiens



        <400> 1396
Met Leu Cys Asn Leu Ala Leu Lys Leu Leu Asn Cys Val Ser Ala Trp
1               5                   10                      15
Asn Met Asn Ile Arg Leu Lys Cys Leu Leu Lys Pro Lys Asn Val Ser
                20                  25                      30
Lys Val Cys Ser Arg Gly Leu Tyr Phe Ile Tyr Val Met Asp Ser Leu
            35                  40                  45          48
    *



        <210> 1397
        <211> 104
        <212> PRT
        <213> Homo sapiens



        <400> 1397
Met Leu Ser Trp Val Phe Pro Gly Ser Val Phe Gly Leu Cys Leu Ser
1               5                   10                      15
Val Trp Val Phe Trp His Gln Ala Ser Leu Gly Arg Ala Ser Gly Cys
                20                  25                      30
Ala Pro Ala Leu Arg Val Gly Leu Ile Pro Gly Cys Arg Gly Leu Arg
            35                  40                  45
Ala Glu Leu Phe His Leu Glu Asp Lys Asp Gly Ser Ser Gly Leu Gly
        50                  55                  60
Gly Gly Gly Gly Ala Gly His Asp Leu Ile Leu Arg Arg Ala Trp Cys
65                  70                  75                      80
Trp Gly Leu Thr Asp Asp Gly Glu Ala Arg Val Gln Ala Leu Gly Met
                85                  90                      95
Thr Pro Gly Ile Ala Phe Ser   *
                100         103



        <210> 1398
        <211> 82
        <212> PRT
        <213> Homo sapiens



        <400> 1398
Met Lys Pro Val Trp Val Ala Thr Leu Leu Trp Met Leu Leu Leu Val
1               5                   10                      15
Pro Arg Leu Gly Ala Ala Arg Lys Gly Ser Pro Glu Glu Ala Ser Phe
                20                  25                      30
```

                                    793

```
Tyr Tyr Gly Thr Phe Pro Leu Gly Gly His His Ser Ala Glu Gly Thr
        35              40              45
Ala Arg Gln Pro Leu Pro Ile Leu Pro Val Leu Ala Pro Ala Pro Ala
    50              55              60
His Arg His Pro Ser Arg Ala Gly Glu Gln Glu Gly Asn Arg Ile Leu
65              70              75              80
Gln *
81
```

```
    <210> 1399
    <211> 68
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1399
Met Gly Ala Val Leu Leu Val Cys Leu Gln Thr Ser Ile Ala Ala Arg
1               5               10              15
Asp Asp Leu Lys Asp Ala Val Asp Ser Gly Leu Leu Leu Ala Asn Ser
            20              25              30
Leu Ser His Phe Val Pro Leu Val Val Arg Asn Tyr Leu Val His Cys
        35              40              45
Asn Leu Leu Gln Thr Leu Lys Phe Leu Leu Gly Asn Cys Thr Ala Gly
    50              55              60
Lys Ala Ser *
65      67
```

```
    <210> 1400
    <211> 54
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1400
Met Ala Val Ala Phe Val Leu Ser Leu Gly Val Ala Ala Leu Tyr Lys
1               5               10              15
Phe Arg Val Ala Asp Gln Arg Lys Lys Ala Tyr Ala Asp Phe Tyr Arg
            20              25              30
Asn Tyr Asp Val Met Lys Asp Phe Glu Glu Met Arg Lys Ala Gly Ile
        35              40              45
Phe Gln Ser Val Lys *
    50      53
```

```
    <210> 1401
    <211> 232
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1401
Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu Pro Thr Trp Trp
1               5               10              15
Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu Phe Val Tyr Leu
```

```
                 20                      25                      30
Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys Leu Gln Val Thr
         35                      40                      45
Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala Thr Asn Ser Arg
         50                      55                      60
Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu Ile Gln Glu Thr
65                      70                      75                      80
Glu Val Ile Ser Arg Gly Phe Thr Leu Leu Leu Asp Arg Val Ser Ala
                 85                      90                      95
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
             100                     105                     110
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Ser Phe Gln Ala
         115                     120                     125
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
         130                     135                     140
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
145                     150                     155                     160
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
                 165                     170                     175
Lys Leu Tyr Arg Trp Leu Gln Pro Ala Cys Ile Glu Gly Phe Val Pro
         180                     185                     190
Thr Leu Gly Gly Thr Glu Phe Arg Val Leu Gln Thr Val Ser Pro Ile
         195                     200                     205
Thr Phe Tyr Ser Gln Phe Thr Ser Trp Ala Leu Thr Tyr Ser Ser Thr
210                     215                     220
Ser Ala Ser Ser Tyr Leu Ile  *
225                     230 231
```

```
        <210> 1402
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1402
Met Ala Pro Ala Arg Pro Trp Trp Leu Thr Pro Val Ile Pro Ala Leu
1                   5                   10                  15
Trp Glu Ala Glu Glu Asp Gly Ser Arg Gly Gln Glu Phe Lys Thr Ser
                20                  25                  30
Leu Ala Ser Met Val Lys Pro Arg Leu Tyr Tyr Lys Tyr Lys Asn  *
            35                  40                  45      47
```

```
        <210> 1403
        <211> 53
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1403
Met Leu Trp Arg Leu Ile Ile Ile Leu Cys Glu Ala Leu Gln Arg Lys
1                   5                   10                  15
Ser Arg Leu Leu Ala Asp Cys Asp His Phe Ser Phe Pro Asn Arg Tyr
            20                  25                  30
Glu Arg Lys Leu Leu Leu Asp Phe Thr Val Arg Ile Trp Ile Gln Thr
        35                  40                  45
```

Tyr Cys Pro His   *
    50   52

    <210> 1404
    <211> 90
    <212> PRT
    <213> Homo sapiens

    <400> 1404
Met Arg Val Phe Cys Val Gly Leu Leu Leu Phe Ser Val Thr Trp Ala
1   5   10   15
Ala Pro Thr Phe Gln Pro Gln Thr Glu Lys Thr Lys Gln Ser Cys Val
            20   25   30
Glu Glu Gln Arg Gln Glu Glu Lys Asn Lys Asp Asn Ile Gly Phe His
        35   40   45
His Leu Gly Lys Arg Ile Asn Gln Glu Leu Ser Ser Lys Glu Asn Ile
    50   55   60
Val Gln Glu Arg Lys Lys Asp Leu Ser Leu Ser Glu Ala Ser Glu Asn
65   70   75   80
Lys Gly Ser Ser Lys Ser Gln Asn Tyr Phe
                85   90

    <210> 1405
    <211> 477
    <212> PRT
    <213> Homo sapiens

    <400> 1405
Met Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu
1   5   10   15
Ala Ala Cys Gly Trp Leu Leu Gly Ala Glu Ala Gln Glu Pro Gly Ala
            20   25   30
Pro Ala Ala Gly Met Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly
        35   40   45
Ile Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val
    50   55   60
Ser Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly
65   70   75   80
Arg Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn
                85   90   95
Pro Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn
            100   105   110
Met His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala
        115   120   125
Gln Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn
    130   135   140
Leu Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp
145   150   155   160
Gly Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe
                165   170   175
Val Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro
            180   185   190
Asp Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn

796

```
          195                     200                     205
Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys
    210                     215                     220
Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro
225                     230                     235                     240
Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr
                245                     250                     255
Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser
                260                     265                     270
Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe
                275                     280                     285
Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp
    290                     295                     300
Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr
305                     310                     315                     320
Ser Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys
                325                     330                     335
Phe Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu
                340                     345                     350
Thr Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr
                355                     360                     365
Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln
    370                     375                     380
Gly Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His
385                     390                     395                     400
Asp Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro
                405                     410                     415
Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr
                420                     425                     430
Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu
                435                     440                     445
Leu Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met
    450                     455                     460
Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe  *
465                     470                     475 476
```

```
        <210> 1406
        <211> 55
        <212> PRT
        <213> Homo sapiens


        <400> 1406
Met Phe Ile Gly Ile Trp Val Ser Leu Tyr Gln Val Leu Trp Leu Lys
 1               5                   10                  15
Glu Leu Leu Trp Gly His Tyr Ile Phe Trp Val Ser Arg Lys Met Phe
            20                  25                   30
Val Tyr Gly Gly Val Gly Gly Lys Thr Ala Asn Ile Cys Arg Lys Gly
        35                  40                  45
Arg Ile Ile Lys Lys Val  *
    50                  54


        <210> 1407
        <211> 66
        <212> PRT
```

<213> Homo sapiens

<400> 1407
Met Leu Leu Gly Val Arg Ala Val Pro Leu Cys Ser Ala Trp Gln Gly
1   5   10   15
Ala Val Gly Leu Val Ser Leu Thr Ile Ser Ile Cys Lys His Gly Leu
            20   25   30
Ser Phe Gln Gln Asn Leu Val Pro Gly Lys Ser Asn Val Pro Lys Ala
        35   40   45
Ser Asp Met Pro Arg Cys Pro Pro Val Asp Ala Ala Ala Asn Ser Arg
    50   55   60
Ser Met
65 66

<210> 1408
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1408
Met Leu Leu Lys Phe Leu Cys Glu Cys Met Pro Ser Leu Leu Leu Ser
1   5   10   15
Glu Phe Leu Asp Ser Pro Arg Ser Gly Ile Asp Gly Ser Asn Gly Asn
            20   25   30
Ser Met Phe Asn Phe Val Lys Asn Cys His Phe Pro Thr Ala Ala Ala
        35   40   45
Pro Phe Pro Thr Pro Thr Ser Arg Val *
    50   55   57

<210> 1409
<211> 72
<212> PRT
<213> Homo sapiens

<400> 1409
Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
1   5   10   15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
            20   25   30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
        35   40   45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
    50   55   60
Gln Gly Lys Gly Thr Pro Asp *
65   70 71

<210> 1410
<211> 53
<212> PRT
<213> Homo sapiens

798

<400> 1410

```
Met Arg Phe Leu Leu Leu Trp Phe Ile Leu Arg Gly Arg Gln Leu Val
1               5                   10                  15
Pro Leu Arg Pro Arg Arg Ser Pro Leu Pro Asp Thr Asn Ala Pro Leu
            20                  25                  30
Pro Gly Leu Gly Gly Gly Asp Gly Ser Thr Gln Thr Pro Phe Ala Gln
        35                  40                  45
Ser Arg Arg Leu  *
    50      52
```

<210> 1411
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1411

```
Met Ala Ser Gln Ser Met Cys Phe Leu Trp Leu Ala Pro Val Thr Trp
1               5                   10                  15
Cys Val Met Phe Ser Ser Arg Thr Cys Tyr Ser Pro Cys Gly Asn Phe
            20                  25                  30
Ser Thr Ala Pro Gly Arg Val Ile Phe His Ser Trp Asp Arg Ala Gln
        35                  40                  45
Phe Val Tyr Ser Phe Leu Ser Arg Trp Arg Leu Gly Leu Phe Pro Pro
    50                  55                  60
Leu Ala Ser Val Asn Gly Asp Ala Val Ile Met Gly Val Pro Val Phe
65                  70                  75                  80
Val  *
81
```

<210> 1412
<211> 72
<212> PRT
<213> Homo sapiens

<400> 1412

```
Met Phe Leu Leu Leu Phe Cys Leu Met Phe Asp Phe Thr Lys Val Phe
1               5                   10                  15
Phe Ile Leu Leu Leu His Ile Phe Cys Leu Ser Thr Cys Leu Phe Leu
            20                  25                  30
Gly Leu His Ile Cys Ala Ser Phe His Ala Arg Ala Leu Leu Glu Thr
        35                  40                  45
Ala Leu Ile Leu Leu Arg Met Lys Ile Ala Gly Phe Gln Val Ile Leu
    50                  55                  60
Phe Pro Gln Asp Phe Val Leu  *
65                  70  71
```

<210> 1413
<211> 59
<212> PRT

<213> Homo sapiens

<400> 1413
Met Met Thr Ile Lys Glu Phe Thr Leu Leu Leu Val Ser Leu Gln Phe
1   5   10   15
Ser Thr Phe Pro Ser Lys Lys Phe Leu Leu Glu Thr His Phe Leu Lys
            20   25   30
Asn Ser Glu Asn Trp Leu Gly Val Val Ala His Ala Cys Ser Leu Ser
            35   40   45
Thr Leu Gly Trp Pro Arg Arg Arg Thr Ala *
        50   55   58

<210> 1414
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1414
Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
1   5   10   15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
            20   25   30
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
        35   40   45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
    50   55   60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
65   70   75   77

<210> 1415
<211> 171
<212> PRT
<213> Homo sapiens

<400> 1415
Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
1   5   10   15
Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
            20   25   30
Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
        35   40   45
Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val
    50   55   60
Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn
65   70   75   80
Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr
                85   90   95
Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile
            100   105   110
Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met
        115   120   125
Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn

800

```
        130              135              140
Val Leu Asp Ala Asn Leu Trp Leu Glu Arg Arg Arg Leu Gly Phe Ser
145                  150              155                  160
Gly Trp Ser Asn Arg Phe Phe Pro Leu Pro  *
                  165                  170
```

```
        <210> 1416
        <211> 77
        <212> PRT
        <213> Homo sapiens


        <400> 1416
Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Phe
1                  5                  10                  15
Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
                  20                  25                  30
Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Ala Gly Gln
              35                  40                  45
Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val Leu Ser Ser
          50                  55                  60
Val Val Tyr Thr His Gly Cys Gly Cys Val Arg Cys  *
65                  70                  75  76
```

```
        <210> 1417
        <211> 249
        <212> PRT
        <213> Homo sapiens


        <400> 1417
Met Glu Lys Ile Pro Glu Ile Gly Lys Phe Gly Glu Lys Ala Pro Pro
1                  5                  10                  15
Ala Pro Ser His Val Trp Arg Pro Ala Ala Leu Phe Leu Thr Leu Leu
                  20                  25                  30
Cys Leu Leu Leu Leu Ile Gly Leu Gly Val Leu Ala Ser Met Phe His
              35                  40                  45
Val Thr Leu Lys Ile Glu Met Lys Lys Met Asn Lys Leu Gln Asn Ile
          50                  55                  60
Ser Glu Glu Leu Gln Arg Asn Ile Ser Leu Gln Leu Met Ser Asn Met
65                  70                  75                  80
Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr Ile
                  85                  90                  95
Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His Lys
              100                 105                 110
Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys Tyr
          115                 120                 125
Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala Cys
      130                 135                 140
Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala Leu
145                 150                 155                 160
Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly Leu
                  165                 170                 175
Ser Pro Glu Glu Asp Ser Thr Arg Gly Met Arg Val Asp Asn Ile Ile
              180                 185                 190
```

```
Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn Met
        195                 200                 205
Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys Thr
    210                 215                 220
Tyr Lys Gln Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln Leu
225                 230                 235                 240
Gly Ser Thr Tyr Phe Arg Glu Ala  *
                245         248
```

```
<210> 1418
<211> 65
<212> PRT
<213> Homo sapiens
```

```
<400> 1418
Met Gly Leu Lys Asn Val Phe Leu Pro Val Phe Leu Pro Phe Leu Leu
1               5               10                  15
Tyr Ser Glu Phe Leu Ser Leu Pro Pro Ser Leu Ser Ser Ser Leu Leu
            20                  25                  30
Pro Phe Leu Pro Phe Ser Leu Pro Gly His Phe Ser Asn Leu His Gln
            35                  40                  45
Arg Tyr Leu Lys Cys Trp Tyr Leu Arg Ile Ser Val Thr Pro Leu Ile
    50                  55                  60              64
 *
```

```
<210> 1419
<211> 468
<212> PRT
<213> Homo sapiens
```

```
<400> 1419
Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
1               5               10                  15
Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
            20                  25                  30
Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
            35                  40                  45
Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
    50                  55                  60
Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
65                  70                  75                  80
Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
                85                  90                  95
Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
            100                 105                 110
Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
    115                 120                 125
Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
    130                 135                 140
Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
145·                150                 155                 160
Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
```

```
                      . 165                    170                    175
Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
            180                    185                    190
His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
            195                    200                    205
Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
            210                    215                    220
Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
225                    230                    235                    . 240
Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
            245                    250                     .         255
Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
            260                    265                    270
Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
            275                    280                    285
Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
            290             .      295                    300
Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
305         .                      310                315                    320
Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
                325                    330                    335
Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
            340                    345   .                350
Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
            355                    360                    365
Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
370                    375                    380
Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
385                    390                    395                    400
Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
                405                    410         .          415
Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
                420                    425                    430        .
Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
            435                    440                    445
Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
            450                    455                    460
Ile Pro Lys · *
465         467
```

```
        <210> 1420
        <211> 150
        <212> PRT
        <213> Homo sapiens


        <400> 1420
Met Ile Arg Cys Leu Ala Gln Pro Ala Ala Val Leu Ser Ser Leu Gly
  1               5                    10                      15
Leu Ala Gln Val Leu Gly Asp Ser Gly Arg Asp Glu Gln Val Leu Leu
                20             .        25                    30
Arg Arg Ser Phe Arg Ala Glu Gly Cys Val Leu Cys Leu Cys Thr Trp
            35                    40                    45
Gly Thr Ala Val Pro Trp His Lys Val Glu Gly Ser Gly Gly Pro Cys
      50                    55                    60
Arg Ser Ala Ala Pro Leu Pro Ala Ser Ala Pro Phe Ser Ile Asp Gly
65                    70                    75                    80
```

```
Arg Ala Val Pro Trp Val Phe Ser Ala Leu Gln Ala Glu Val Gly Val
                85                      90                      95
Leu Gly Glu Gln Met Arg Asp Gly Arg Gly Leu Cys Gly Ser His Pro
            100                     105             110
Trp Val Leu Gln Leu Ser Trp Pro Gly Val Phe Pro Gln Cys Trp Leu
            115                     120                 125
Cys Pro Arg Leu Val Cys Leu Ala Lys Gln Asn Trp Gln Cys Pro Phe
        130                 135                 140
Glu Thr Pro Arg Lys  *
145             149
```


```
        <210> 1421
        <211> 89
        <212> PRT
        <213> Homo sapiens


        <400> 1421
Met Tyr Val Phe Leu Leu Cys Pro Ala Cys Gly Arg Leu Met Gly Ser
  1               5                  10                  15
Thr Tyr Met Arg Leu Leu Pro Gln Ser Glu Pro Ala Leu His Asn Arg
                20                  25                  30
Ile Leu Arg Gln Thr Glu Pro Leu Leu Tyr Phe Lys Arg Gly Lys Gln
            35                  40                  45
Gln Gly Leu Phe Tyr Ala Ser Phe Pro Ala Val His Arg Met Asp Ser
        50                  55                  60
Leu Leu Arg Arg Thr Val Val Ile Leu Tyr Lys Arg Thr Asn Thr Val
65                  70                  75                  80
Gly Val Ser Leu Phe Gln Asn Ala  *
                85          88
```


```
        <210> 1422
        <211> 83
        <212> PRT
        <213> Homo sapiens


        <400> 1422
Met Met Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
  1               5                  10                  15
Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
                20                  25                  30
Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
            35                  40                  45
Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
        50                  55                  60
Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
65                  70                  75                  80
Ser Arg  *
    82
```


```
        <210> 1423
        <211> 54
```

<212> PRT
<213> Homo sapiens

<400> 1423
Met Ile Leu Phe Pro Leu Cys Pro Ser Ile Leu Ser Leu Lys Pro Lys
1   5   10   15
Lys Lys Glu Ala Leu Pro Ser Leu Ser Val Met Gly Thr Val Phe Leu
        20   25   30
Leu Val Ser Cys Ser Leu Pro Ser Pro Ala Ala Cys Gly Arg Asn Ala
        35   40   45
Ala Thr Ala Gln His *
    50   53

<210> 1424
<211> 73
<212> PRT
<213> Homo sapiens

<400> 1424
Met Cys Phe Ser Cys Leu Pro Leu Gln Cys Leu Ala Met Gly His Lys
1   5   10   15
His Tyr Pro Ala Val Gly Arg Leu Ala Lys Arg Ser Gln Leu Ala Ser
        20   25   30
Pro Ala Ser Ser Arg Glu Trp Asn His Gly Ser Asn Thr Leu Leu Arg
        35   40   45
Lys Gln Lys Leu Tyr Gly His Ile Phe His Leu Leu Ser Pro Arg Asn
    50   55   60
His Met Tyr Cys Asp Pro Ala His *
65   70   72

<210> 1425
<211> 245
<212> PRT
<213> Homo sapiens

<400> 1425
Met Ala Cys Tyr Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu
1   5   10   15
Ile Ala Val Phe Asn Asn Thr Phe Phe Glu Val Lys Ser Ile Ser Asn
        20   25   30
Gln Val Trp Lys Phe Gln Arg Tyr Gln Leu Ile Met Thr Phe His Glu
        35   40   45
Arg Pro Val Leu Pro Pro Pro Leu Ile Ile Phe Ser His Met Thr Met
    50   55   60
Ile Phe Gln His Leu Cys Cys Arg Trp Arg Lys His Glu Ser Asp Pro
65   70   75   80
Asp Glu Arg Asp Tyr Gly Leu Lys Leu Phe Ile Thr Asp Asp Glu Leu
                85   90   95
Lys Lys Val His Asp Phe Glu Glu Gln Cys Ile Glu Glu Tyr Phe Arg
        100   105   110
Glu Lys Asp Asp Arg Phe Asn Ser Ser Asn Asp Glu Arg Ile Arg Val
        115   120   125

805

```
Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu Val Asn
    130                 135                 140
Glu Arg Glu His Ser Met Lys Ala Ser Leu Gln Thr Val Asp Ile Arg
145                 150                 155                 160
Leu Ala Gln Leu Glu Asp Leu Ile Gly Arg Met Ala Thr Ala Leu Glu
                165                 170                 175
Arg Leu Thr Gly Leu Glu Arg Ala Glu Ser Asn Lys Ile Arg Ser Arg
            180                 185                 190
Thr Ser Ser Asp Cys Thr Asp Ala Arg Leu His Trp Pro Val Arg Ala
        195                 200                 205
Ala Leu Thr Ser Gln Glu Arg Glu His Leu Ser Ala Pro Lys Arg Gly
        210                 215                 220
Leu Glu Pro Trp Gln Asn Ile Leu Phe Ile Gln Tyr Lys Pro Ala Ala
225                 230                 235                 240
Ser Ser Ser Thr  *
            244
```

```
<210> 1426
<211> 520
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(520)
<223> Xaa = any amino acid or nothing


<400> 1426
Met Asp Ile Leu Leu Leu Leu Leu Phe Phe Met Ile Ile Phe Ala Ile
1               5                   10                  15
Leu Gly Phe Tyr Leu Phe Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser
            20                  25                  30
Thr Leu Glu Asn Ser Ile Val Ser Leu Phe Val Leu Leu Thr Thr Ala
        35                  40                  45
Asn Phe Pro Asp Val Met Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser
    50                  55                  60
Cys Val Phe Phe Ile Val Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met
65                  70                  75                  80
Asn Leu Leu Leu Ala Val Val Phe Asp Thr Phe Asn Asp Ile Glu Lys
            85                  90                  95
Arg Lys Phe Lys Ser Leu Leu Leu His Lys Arg Thr Ala Ile Gln His
            100                 105                 110
Ala Tyr Arg Leu Leu Ile Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr
        115                 120                 125
Arg Gln Phe Glu Gly Leu Met Arg Phe Tyr Lys Pro Arg Met Ser Ala
    130                 135                 140
Arg Glu Arg Tyr Leu Thr Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro
145                 150                 155                 160
Leu Leu Ser Leu Lys Asp Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu
            165                 170                 175
Lys Trp Lys Ala Thr Lys Asn Arg Glu His Trp Val Asp Glu Leu Pro
            180                 185                 190
Arg Thr Ala Leu Leu Ile Phe Lys Gly Ile Asn Ile Leu Val Lys Ala
        195                 200                 205
Lys Ala Phe Gln Tyr Phe Met Tyr Leu Val Val Ala Val Asn Gly Val
    210                 215                 220
Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn Phe Phe Ser
```

806

```
225                 230                 235                 240
Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val
                245                 250                 255
Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser
            260                 265                 270
Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe Ala Phe Leu
            275                 280                 285
Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr Phe Ile Val
    290                 295                 300
Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg
305                 310                 315                 320
Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro Arg Met Ala
                325                 330                 335
Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val
            340                 345                 350
Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys Cys Asn Thr
            355                 360                 365
Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr Val Gly Asn
    370                 375                 380
Arg Thr Val Val Glu Glu Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn
385                 390                 395                 400
Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val Val Asn Asn
                405                 410                 415
Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser His Trp Ser
                420                 425                 430
Arg Leu Tyr Phe Met Thr Phe Tyr Ile Ala Thr Met Val Val Met Thr
            435                 440                 445
Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg Met Asn Tyr
    450                 455                 460
Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile Thr Leu Glu
465                 470                 475                 480
Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu Leu Tyr Arg
                485                 490                 495
Glu Ala Arg Xaa Ala Ser Ser Asp Val Thr Arg Leu Leu Glu Thr Leu
            500                 505                 510
Ser Gln Met Glu Arg Tyr Gln Gln
    515                 520
```

```
    <210> 1427
    <211> 106
    <212> PRT
    <213> Homo sapiens


    <400> 1427
Met Ser Pro Gln His Leu Leu Leu Thr Leu Pro Leu Pro Leu Arg Ser
1               5               10              15
Pro Ile Leu Phe Ser His Thr Ala Gln Leu Leu Val Leu Thr Arg Ile
            20              25              30
Ala Phe Arg Ala Cys Glu Leu Phe Phe Phe Val Met Val Ser Leu Cys
        35              40              45
Cys Pro Gly Ile His Ser Phe Ile Ala Thr Ile Thr Tyr Glu Arg Asn
    50              55              60
Ala Phe Gln Ser Ile Ser Ser Val Gln Gln His Leu His Phe Gly
65              70              75              80
Cys Ala Leu Ser Pro Pro Ala Pro Arg Glu Ser Phe Ser Pro Cys Leu
                85              90              95
```

807

```
Thr Thr His Arg Leu Pro Ser Cys Phe  *
             100             105
```

```
      <210> 1428
      <211> 841
      <212> PRT
      <213> Homo sapiens
```

```
      <400> 1428
Met Ala Leu Ala Ser Ala Ala Pro Gly Ser Ile Phe Cys Lys Gln Leu
 1               5                  10                  15
Leu Phe Ser Leu Leu Val Leu Thr Leu Leu Cys Asp Ala Cys Gln Lys
              20                  25                  30
Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly
          35                  40                  45
Lys Val Asn Leu Glu Glu Cys Leu Lys Ser Ala Ser Leu Ile Arg Ser
      50                  55                  60
Ser Asp Pro Ala Phe Arg Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr
 65                  70                  75                  80
His Asp Leu Ile Leu Ser Ser Glu Arg Lys Ser Phe Ser Ile Phe Leu
              85                  90                  95
Ser Asp Gly Gln Arg Arg Glu Gln Gln Glu Ile Lys Val Val Leu Ser
             100                 105                 110
Ala Arg Glu Asn Lys Ser Pro Lys Lys Arg His Thr Lys Asp Thr Ala
          115                 120                 125
Leu Lys Arg Ser Lys Arg Arg Trp Ala Pro Ile Pro Ala Ser Leu Met
      130                 135                 140
Glu Asn Ser Leu Gly Pro Phe Pro Gln His Val Gln Gln Ile Gln Ser
145                 150                 155                 160
Asp Ala Ala Gln Asn Tyr Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly
              165                 170                 175
Val Asp Lys Glu Pro Phe Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly
          180                 185                 190
Asp Ile Phe Cys Thr Arg Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe
          195                 200                 205
Ala Leu Tyr Gly Tyr Ala Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr
      210                 215                 220
Pro Leu Pro Leu Ile Ile Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro
225                 230                 235                 240
Tyr Phe Glu His Arg Val Thr Ile Phe Thr Val Pro Glu Asn Cys Arg
              245                 250                 255
Ser Gly Thr Ser Val Gly Lys Val Thr Ala Thr Asp Leu Asp Glu Pro
              260                 265                 270
Asp Thr Leu His Thr Arg Leu Lys Tyr Lys Ile Leu Gln Gln Ile Pro
          275                 280                 285
Asp His Pro Lys His Phe Ser Ile His Pro Asp Thr Gly Val Ile Thr
      290                 295                 300
Thr Thr Thr Pro Phe Leu Asp Arg Glu Lys Cys Asp Thr Tyr Gln Leu
305                 310                 315                 320
Ile Met Glu Val Arg Asp Met Gly Gly Gln Pro Phe Gly Leu Phe Asn
              325                 330                 335
Thr Gly Thr Ile Thr Ile Ser Leu Glu Asp Glu Asn Asp Asn Pro Pro
              340                 345                 350
Ser Phe Thr Glu Thr Ser Tyr Val Thr Glu Val Glu Glu Asn Arg Ile
      355                 360                 365
Asp Val Glu Ile Leu Arg Met Lys Val Gln Asp Gln Asp Leu Pro Asn
```

```
           370              ·-          375                      380
Thr Pro His Ser Lys Ala Val Tyr Lys Ile Leu Gln Gly Asn Glu Asn
385                      390                      395                      400
Gly Asn Phe Ile Ile Ser Thr Asp Pro Asn Thr Asn Glu Gly Val Leu
                    405                      410                      415
Cys Val Val Lys Pro Leu Asn Tyr Glu Val Asn Arg Gln Val Ile Leu
                    420                      425                      430
Gln Val Gly Val Ile Asn Glu Ala Gln Phe Ser Lys Ala Ala Ser Ser
                    435                      440                      445
Gln Thr Pro Thr Met Cys Thr Thr Thr Val Thr Val Lys Ile Ile Asp
     450                      455                      460
Ser Asp Glu Gly Pro Glu Cys His Pro Pro Val Lys Val Ile Gln Ser
465                      470                      475                      480
Gln Asp Gly Phe Pro Ala Gly Gln Glu Leu Leu Gly Tyr Lys Ala Leu
          '         485                      490                      495  .
Asp Pro Glu Ile Ser Ser Gly Glu Gly Leu Arg Tyr Gln Lys Leu Gly
                    500                      505                      510
Asp Glu Asp Asn Trp Phe Glu Ile Asn Gln His Thr Gly Asp Leu Arg
                    515                      520                      525
Thr Leu Lys Val Leu Asp Arg Glu Ser Lys Phe Val Lys Asn Asn Gln
          530                      535                      540
Tyr Asn Ile Ser Val Val Ala Gly Asp Ala Val Gly Arg Ser Cys Thr
545                      550                      555                      560
Gly Thr Leu Val Val His Leu Asp Asp Tyr Asn Asp His Ala Pro Gln
                    565                      570                      575
Ile Asp Lys Glu Val Thr Ile Cys Gln Asn Asn Glu Asp Phe Val Val
                    580                      585                      590
Leu Lys Pro Val Asp Pro Asp Gly Pro Glu Asn Gly Pro Pro Phe Gln
          595                      600                      605
Phe Phe Leu Asp Asn Ser Ala Ser Lys Asn Trp Asn Ile Lys Lys Lys
          610                      615  ·              620
Asp Gly Lys Thr Ala Ile Leu Arg Gln Arg Gln Asn Leu Asp Tyr Asn
625                      630                      635                      640
Tyr Tyr Ser Val Pro Ile Gln Ile Lys Asp Arg His Gly Leu Val Ala
                    645                      650                      655
Thr His Met Leu Thr Val Arg Val Cys Asp Cys Ser Thr Pro Ser Glu
                    660                      665                      670
Cys Thr Met Lys Asp Lys Ser Thr Arg Asp Val Arg Pro Asn Val Ile
          675                      680                      685
Leu Gly Arg Trp Ala Ile Leu Ala Met Val Leu Gly Ser Val Leu Leu
          690                      695                      700
Leu Cys Ile Leu Phe Thr Cys Phe Cys Val Thr Ala Lys Arg Thr Val
· 705                      710                      715                      720
Lys Lys Cys Phe Pro Glu Asp Ile Ala Gln Gln Asn Leu Ile Val Ser
                    725                      730                      735
Asn Thr Glu Gly Pro Gly Glu Glu Val Thr Glu Ala Asn Ile Arg Leu
                    740                      745                      750
Pro Met Gln Thr Ser Asn Ile Cys Asp Thr Ser Met Ser Val Gly Thr
          755                      760                      765
Val Gly Gly Gln Gly Ile Lys Thr Gln Gln Ser Phe Glu Met Val Lys
          770                      775                      780
Gly Gly Tyr Thr Leu Asp Ser Asn Lys Gly Gly Gly His Gln Thr Leu
785                      790                      795                      800
Glu Ser Val Lys Gly Val Gly Gln Gly Asp Thr Gly Arg Tyr Ala Tyr
                    805                      810                      815
Thr Asp Trp Gln Ser Phe Thr Gln Pro Arg Leu Gly Glu Glu Ser Ile
          820                      825                      830
Arg Gly His Thr Leu Ile Lys Asn   *
          835                      840
```

```
<210> 1429
<211> 262
<212> PRT
<213> Homo sapiens


<400> 1429
Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
1               5                   10                  15
Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
            20                  25                  30
Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu
        35                  40                  45
Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr
    50                  55                  60
Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe
65                  70                  75                  80
Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg
            85                  90                  95
Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
            100                 105                 110
Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
            115                 120                 125
Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
    130                 135                 140
Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
145                 150                 155                 160
Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
                165                 170                 175
Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
            180                 185                 190
Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
        195                 200                 205
Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
    210                 215                 220
Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
225                 230                 235                 240
Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
            245                 250                 255
Gly Lys Thr Lys Asn  *
        260 261



<210> 1430
<211> 66
<212> PRT
<213> Homo sapiens


<400> 1430
Met Ser Tyr Thr Ala Phe Leu Ser Val Cys Cys Leu Pro Leu Leu Pro
1               5                   10                  15
Leu Cys Asp Phe Ala Leu Tyr Val Leu Leu Asp Lys Phe Lys Gly Gly
            20                  25                  30
Phe Arg Gln Gln Asn Ser Pro Gln Ser Ile Tyr Gln His Asn Pro Tyr
```

```
        35                    40                    45
Gln Asn Pro Asn Asn Val Leu Ile Phe Leu Gln Lys Trp Lys Asn Arg
    50                .55                    60
Cys *
65




    <210> 1431
    <211> 437
    <212> PRT
    <213> Homo sapiens


    <400> 1431
Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
1               5               .10                   15
Ser Gln Ser Leu Ala Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
        20                      25                    30
Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
        35                      40                    45
Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
    50                  55                    60
Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
65                  70                    75                    80
Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
            85                      90                    95
Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
            100                     105                   110
Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
        115                     120                   125
Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
    130                     135                   140
Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
145                     150                     155                   160
Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser
                165                     170                   175
Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
            180                     185                   190
Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
            195                     200                   205
Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
    210                     215                   220
Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
225                     230                   235                   240
Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
                245                     250                   255
Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
            260                     265                   270
Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
            275                     280                   285
Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
        290                     295                   300
Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
305                     310                     315                   320
Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
            325                     330                   335
Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
            340                     345                   350
```

811

```
His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
         355             360             365
Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
     370             375             380
Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
385             390             395             400
Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
             405             410             415
Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
         420             425             430
Asp Val Tyr Ile  *
     435 436
```

```
        <210> 1432
        <211> 53
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1432
Met Ser Tyr Val Glu Ile Leu Ile Pro Val Leu Leu Cys Leu His Ala
1               5               10              15
Phe Phe Pro Ser Ser Arg Arg His Val Ala Trp Phe Leu Ile Phe Ile
             20              25              30
Cys Lys Phe Phe Lys Phe Cys Leu Ile Leu Lys Phe Ile Ile Leu Ile
         35              40              45
Leu Asn Tyr Leu  *
     50      52
```

```
        <210> 1433
        <211> 76
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1433
Met Glu Leu Lys Gly Phe Trp Leu Cys Leu Phe Leu Arg Phe Val Lys
1               5               10              15
Trp Phe Val Asn Lys Gly Met Ile Leu Cys Thr Leu Phe Tyr Asn Leu
             20              25              30
Ile Tyr Ser Leu Tyr Asn Met Cys Trp Thr Val Leu Trp Ile Arg Lys
         35              40              45
Tyr Gln Thr Leu Leu Lys Glu Ser Phe Phe Ser Leu Asn Thr Phe Leu
     50              55              60
Phe Lys Asp Lys Ala Ser Thr Ser Ile Pro Leu  *
65              70              75
```

```
        <210> 1434
        <211> 169
        <212> PRT
        <213> Homo sapiens
```

<400> 1434
Met Glu Ser Trp Trp Gly Leu Pro Cys Leu Ala Phe Leu Cys Phe Leu
1   5   10   15
Met His Ala Arg Gly Gln Arg Asp Phe Asp Leu Ala Asp Ala Leu Asp
            20   25   30
Asp Pro Glu Pro Thr Lys Lys Pro Asn Ser Asp Ile Tyr Pro Lys Pro
        35   40   45
Lys Pro Pro Tyr Tyr Pro Gln Pro Glu Asn Pro Asp Ser Gly Gly Asn
    50   55   60
Ile Tyr Pro Arg Pro Lys Pro Arg Pro Gln Pro Gln Pro Gly Asn Ser
65   70   75   80
Gly Asn Ser Gly Gly Ser Tyr Phe Asn Asp Val Asp Arg Asp Asp Gly
            85   90   95
Arg Tyr Pro Pro Arg Pro Arg Pro Arg Pro Pro Ala Gly Gly Gly Gly
            100   105   110
Gly Gly Tyr Ser Ser Tyr Gly Asn Ser Asp Asn Thr His Gly Gly Asp
        115   120   125
His His Ser Thr Tyr Gly Asn Pro Glu Gly Asn Met Val Ala Lys Ile
        130   135   140
Val Ser Pro Ile Val Ser Val Val Val Val Thr Leu Leu Gly Ala Ala
145   150   155   160
Ala Gln Leu Phe Gln Thr Lys Gln *
            165   168

<210> 1435
<211> 162
<212> PRT
<213> Homo sapiens

<400> 1435
Met Arg Phe Val Thr Leu Ser Ser Ala Cys Leu Cys Pro Cys Pro Leu
1   5   10   15
Gly Pro Cys Trp Thr Arg His Pro Ser Tyr Gly Asn Leu His Glu Ala
            20   25   30
Ser Thr Ser Leu Pro Pro Arg His Trp Thr Gly Ala Arg Lys Trp Asn
        35   40   45
Glu Ser Ser His Cys Leu Lys Ser Trp Arg Pro Ser Ser Ala Ser Gly
    50   55   60
Ser Pro Glu Asn Leu Gly Ser Asp Arg Arg Thr Glu Thr Glu Gly Arg
65   70   75   80
Glu Arg Asp Cys Asp Arg Glu Ala Glu Glu Gly Asp Arg Val Arg Glu
            85   90   95
Glu Gln Asn Ser Leu Gln Trp Glu Gln Arg Gln Lys Cys Gly Gly Pro
            100   105   110
Thr Gly Arg Gly Gly Arg Glu Gly Glu Gly Arg Arg Glu Gly Gln Leu
        115   120   125
Pro Val Gln Val Ala Val Arg Ala Leu Gly Leu Gly Arg Gly Thr Leu
    130   135   140
Leu Leu Leu Ala Ser His Thr Gly Ser Ile Arg Gly Pro Arg Glu Gln
145   150   155   160
Val Ser
    162

<210> 1436

813

```
<211> 77
<212> PRT
<213> Homo sapiens


<400> 1436
Met Trp Ile Val Leu Leu Gly Gly Phe Val Gly Pro Leu Tyr Leu Thr
1               5                   10                  15
Pro Ala Pro Ser Pro Cys Thr His Thr Leu Gly Val Arg Ala Val Pro
                20                  25                  30
Leu Val Thr Gly Leu Thr Ser Gln Leu Trp Leu Asn Ala Ala Gly Glu
            35                  40                  45
Ser Leu Thr Tyr Arg Met Trp Ser Met Ala Ser Met Thr Glu Gln Pro
        50                  55                  60
Glu Leu Ser Glu Met Tyr Met Leu Pro Thr Leu His Glu
65                  70                  75      77.



<210> 1437
<211> 85
<212> PRT
<213> Homo sapiens


<400> 1437
Met Cys Ser Leu Pro Arg His Leu Leu Phe Leu Ile Ile Phe Arg Ala
1               5                   10                  15
Tyr Ser Leu Ala Val Asp Leu Ser Thr His Ser Leu Thr Thr Ala Lys
                20                  25                  30
Phe Pro Ser Pro Ile Val Leu Pro Thr Leu Tyr Arg Ser Val Ile Val
            35                  40                  45
Ala Gly Ile Trp Lys Pro Ser Ser Asp Thr Ser Ser Pro Gly Pro Ser
        50                  55                  60
Phe Ser Ser Ile Glu Leu Gln Thr Leu Val Asp Ala Ser Asp Val Glu
65                  70                  75                  80
Glu Pro Pro Cys  *
                84



<210> 1438
<211> 76
<212> PRT
<213> Homo sapiens


<400> 1438
Met Ile Gly Asp Ile Leu Leu Phe Gly Thr Leu Leu Met Asn Ala Gly
1               5                   10                  15
Ala Val Leu Asn Phe Lys Leu Lys Lys Lys Asp Thr Gln Gly Phe Gly
                20                  25                  30
Glu Glu Ser Arg Glu Pro Ser Thr Gly Asp Asn Ile Arg Glu Phe Leu
            35                  40                  45
Leu Ser Leu Arg Tyr Phe Arg Ile Phe Ile Ala Leu Trp Asn Ile Phe
        50                  55                  60
Met Met Phe Cys Met Ile Val Leu Phe Gly Ser  *
65                  70                  75
```

```
<210> 1439
<211> 425
<212> PRT
<213> Homo sapiens


<400> 1439
Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe Gly
1               5                   10                  15
Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly Gly
            20                  25                  30
His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe Val
        35                  40                  45
Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala Val
    50                  55                  60
Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile Gln
65                  70                  75                  80
Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly Ile
                85                  90                  95
Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala Arg
            100                 105                 110
Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile Ile
        115                 120                 125
Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn Phe
    130                 135                 140
Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro Leu
145                 150                 155                 160
Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu Asn
                165                 170                 175
Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu Ala
            180                 185                 190
Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr Asn
        195                 200                 205
Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Leu Ser Asn
    210                 215                 220
Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser Leu
225                 230                 235                 240
Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn Gly
                245                 250                 255
Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu Gly
                260                 265                 270
His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr Pro
            275                 280                 285
Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu Phe
    290                 295                 300
Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg Trp
305                 310                 315                 320
Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr Lys
                325                 330                 335
Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro Ala
            340                 345                 350
Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr Ser
        355                 360                 365
Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly Val
    370                 375                 380
Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp Phe
385                 390                 395                 400
```

```
Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu Glu
             405              410              415
Val Val Pro Glu Glu Asp Lys Leu  *
             420          424
```


```
<210> 1440
<211> 70
<212> PRT
<213> Homo sapiens


<400> 1440
Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile
 1               5                  10                  15
Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys
             20                  25                  30
Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
             35                  40                  45
Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu
     50                  55                  60
Lys Tyr His Trp Pro  *
 65             69
```


```
<210> 1441
<211> 1691
<212> PRT
<213> Homo sapiens


<400> 1441
Met Trp Ser Leu His Ile Val Leu Met Arg Cys Ser Phe Arg Leu Thr
 1               5                  10                  15
Lys Ser Leu Ala Thr Gly Pro Trp Ser Leu Ile Leu Ile Leu Phe Ser
             20                  25                  30
Val Gln Tyr Val Tyr Gly Ser Gly Lys Lys Tyr Ile Gly Pro Cys Gly
             35                  40                  45
Gly Arg Asp Cys Ser Val Cys His Cys Val Pro Glu Lys Gly Ser Arg
     50                  55                  60
Gly Pro Pro Gly Pro Pro Gly Pro Gln Gly Pro Ile Gly Pro Leu Gly
 65             70                  75                  80
Ala Pro Gly Pro Ile Gly Leu Ser Gly Glu Lys Gly Met Arg Gly Asp
             85                  90                  95
Arg Gly Pro Pro Gly Ala Ala Gly Asp Lys Gly Asp Lys Gly Pro Thr
             100             105                 110
Gly Val Pro Gly Phe Pro Gly Leu Asp Gly Ile Pro Gly His Pro Gly
         115                 120                 125
Pro Pro Gly Pro Arg Gly Lys Pro Gly Met Ser Gly His Asn Gly Ser
     130             135                 140
Arg Gly Asp Pro Gly Phe Pro Gly Gly Arg Gly Ala Leu Gly Pro Gly
 145             150                 155                 160
Gly Pro Leu Gly His Pro Gly Glu Lys Gly Glu Lys Gly Asn Ser Val
             165                 170                 175
Phe Ile Leu Gly Ala Val Lys Gly Ile Gln Gly Asp Arg Gly Asp Pro
         180                 185                 190
Gly Leu Pro Gly Leu Pro Gly Ser Trp Gly Ala Gly Gly Pro Ala Gly
```

```
              195                    200                    205
Pro Thr Gly Tyr Pro Gly Glu Pro Gly Leu Val Gly Pro Pro Gly Gln
    210                    215                    220
Pro Gly Arg Pro Gly Leu Lys Gly Asn Pro Gly Val Gly Val Lys Gly
225                    230                    235                    240
Gln Met Gly Asp Pro Gly Glu Val Gly Gln Gln Gly Ser Pro Gly Pro
                245                    250                    255
Thr Leu Leu Val Glu Pro Pro Asp Phe Cys Leu Tyr Lys Gly Glu Lys
            260                    265                    270
Gly Ile Lys Gly Ile Pro Gly Met Val Gly Leu Pro Gly Pro Pro Gly
        275                    280                    285
Arg Lys Gly Glu Ser Gly Ile Gly Ala Lys Gly Glu Lys Gly Ile Pro
    290                    295                    300
Gly Phe Pro Gly Pro Arg Gly Asp Pro Gly Ser Tyr Gly Ser Pro Gly
305                    310                    315                    320
Phe Pro Gly Leu Lys Gly Glu Leu Gly Leu Val Gly Asp Pro Gly Leu
                325                    330                    335
Phe Gly Leu Ile Gly Pro Lys Gly Asp Pro Gly Asn Arg Gly His Pro
            340                    345                    350
Gly Pro Pro Gly Val Leu Val Thr Pro Pro Leu Pro Leu Lys Gly Pro
        355                    360                    365
Pro Gly Asp Pro Gly Phe Pro Gly Arg Tyr Gly Glu Thr Gly Asp Val
    370                    375                    380
Gly Pro Pro Gly Pro Pro Gly Leu Leu Gly Arg Pro Gly Glu Ala Cys
385                    390                    395                    400
Ala Gly Met Ile Gly Pro Pro Gly Pro Gln Gly Phe Pro Gly Leu Pro
                405                    410                    415
Gly Leu Pro Gly Glu Ala Gly Ile Pro Gly Arg Pro Asp Ser Ala Pro
            420                    425                    430
Gly Lys Pro Gly Lys Pro Gly Ser Pro Gly Leu Pro Gly Ala Pro Gly
        435                    440                    445
Leu Gln Gly Leu Pro Gly Ser Ser Val Ile Tyr Cys Ser Val Gly Asn
    450                    455                    460
Pro Gly Pro Gln Gly Ile Lys Gly Lys Val Gly Pro Pro Gly Gly Arg
465                    470                    475                    480
Gly Pro Lys Gly Glu Lys Gly Asn Glu Gly Leu Cys Ala Cys Glu Pro
                485                    490                    495
Gly Pro Met Gly Pro Pro Gly Pro Pro Gly Leu Pro Gly Arg Gln Gly
            500                    505                    510
Ser Lys Gly Asp Leu Gly Leu Pro Gly Trp Leu Gly Thr Lys Gly Asp
        515                    520                    525
Pro Gly Pro Pro Gly Ala Glu Gly Pro Pro Gly Leu Pro Gly Lys His
    530                    535                    540
Gly Ala Ser Gly Pro Pro Gly Asn Lys Gly Ala Lys Gly Asp Met Val
545                    550                    555                    560
Val Ser Arg Val Lys Gly His Lys Gly Glu Arg Gly Pro Asp Gly Pro
                565                    570                    575
Pro Gly Phe Pro Gly Gln Pro Gly Ser His Gly Arg Asp Gly His Ala
            580                    585                    590
Gly Glu Lys Gly Asp Pro Gly Pro Pro Gly Asp His Glu Asp Ala Thr
        595                    600                    605
Pro Gly Gly Lys Gly Phe Pro Gly Pro Leu Gly Pro Pro Gly Lys Ala
    610                    615                    620
Gly Pro Val Gly Pro Pro Gly Leu Gly Phe Pro Gly Pro Pro Gly Glu
625                    630                    635                    640
Arg Gly His Pro Gly Val Pro Gly His Pro Gly Val Arg Gly Pro Asp
                645                    650                    655
Gly Leu Lys Gly Gln Lys Gly Asp Thr Ile Ser Cys Asn Val Thr Tyr
            660                    665                    670
```

817

```
Pro Gly Arg His Gly Pro Pro Gly Phe Asp Gly Pro Pro Gly Pro Lys
        675             680             685
Gly Phe Pro Gly Pro Gln Gly Ala Pro Gly Leu Ser Gly Ser Asp Gly
    690             695             700
His Lys Gly Arg Pro Gly Thr Pro Gly Thr Ala Glu Ile Pro Gly Pro
705             710             715             720
Pro Gly Phe Arg Gly Asp Met Gly Asp Pro Gly Phe Gly Gly Glu Lys
            725             730             735
Gly Ser Ser Pro Val Gly Pro Pro Gly Pro Gly Ser Pro Gly Val
            740             745             750
Asn Gly Gln Lys Gly Ile Pro Gly Asp Pro Ala Phe Gly His Leu Gly
        755             760             765
Pro Pro Gly Lys Arg Gly Leu Ser Gly Val Pro Gly Ile Lys Gly Pro
    770             775             780
Arg Gly Asp Pro Gly Cys Pro Gly Ala Glu Gly Pro Ala Gly Ile Pro
785             790             795             800
Gly Phe Leu Gly Leu Lys Gly Pro Lys Gly Arg Glu Gly His Ala Gly
            805             810             815
Phe Pro Gly Val Pro Gly Pro Pro Gly His Ser Cys Glu Arg Gly Ala
            820             825             830
Pro Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Tyr Pro Gly Ser Pro
        835             840             845
Gly Ala Pro Gly Gly Lys Gly Gln Pro Gly Asp Val Gly Pro Pro Gly
    850             855             860
Pro Ala Gly Met Lys Gly Leu Pro Gly Leu Pro Gly Arg Pro Gly Ala
865             870             875             880
His Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Phe Gly Asp Asp
            885             890             895
Gly Leu Pro Gly Pro Pro Gly Pro Lys Gly Pro Arg Gly Leu Pro Gly
            900             905             910
Phe Pro Gly Phe Pro Gly Glu Arg Gly Lys Pro Gly Ala Glu Gly Cys
    915             920             925
Pro Gly Ala Lys Gly Glu Pro Gly Glu Lys Gly Met Ser Gly Leu Pro
    930             935             940
Gly Asp Arg Gly Leu Arg Gly Ala Lys Gly Ala Ile Gly Pro Pro Gly
945             950             955             960
Asp Glu Gly Glu Met Ala Ile Ile Ser Gln Lys Gly Thr Pro Gly Glu
            965             970             975
Pro Gly Pro Pro Gly Asp Asp Gly Phe Pro Gly Glu Arg Gly Asp Lys
    980             985             990
Gly Thr Pro Gly Met Gln Gly Arg Arg Gly Glu Leu Gly Arg Tyr Gly
    995             1000            1005
Pro Pro Gly Phe His Arg Gly Glu Pro Gly Glu Lys Gly Gln Pro Gly
    1010            1015            1020
Pro Pro Gly Pro Pro Gly Pro Pro Gly Ser Thr Gly Leu Arg Gly Phe
1025            1030            1035            1040
Ile Gly Phe Pro Gly Leu Pro Gly Asp Gln Gly Glu Pro Gly Ser Pro
            1045            1050            1055
Gly Pro Pro Gly Phe Ser Gly Ile Asp Gly Ala Arg Gly Pro Lys Gly
            1060            1065            1070
Asn Lys Gly Asp Pro Ala Ser His Phe Gly Pro Pro Gly Pro Lys Gly
        1075            1080            1085
Glu Pro Gly Ser Pro Gly Cys Pro Gly His Phe Gly Ala Ser Gly Glu
    1090            1095            1100
Gln Gly Leu Pro Gly Ile Gln Gly Pro Arg Gly Ser Pro Gly Arg Pro
1105            1110            1115            1120
Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Cys Pro Gly Asp His Gly
            1125            1130            1135
Met Pro Gly Leu Arg Gly Gln Pro Gly Glu Met Gly Asp Pro Gly Pro
```

```
            1140              1145              1150
  Arg Gly Leu Gln Gly Asp Pro Gly Ile Pro Gly Pro Pro Gly Ile Lys
       1155              1160              1165
  Gly Pro Ser Gly Ser Pro Gly Leu Asn Gly Leu His Gly Leu Lys Gly
     1170              1175              1180
  Gln Lys Gly Thr Lys Gly Ala Ser Gly Leu His Asp Val Gly Pro Pro
1185              1190              1195              1200
  Gly Pro Val Gly Ile Pro Gly Leu Lys Gly Glu Arg Gly Asp Pro Gly
            1205              1210              1215
  Ser Pro Gly Ile Ser Pro Pro Gly Pro Arg Gly Lys Lys Gly Pro Pro
       1220              1225              1230
  Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Pro Ala Gly Ala Thr Gly
       1235              1240              1245
  Arg Ala Pro Lys Asp Ile Pro Asp Pro Gly Pro Pro Gly Asp Gln Gly
     1250              1255              1260
  Pro Pro Gly Pro Asp Gly Pro Arg Gly Ala Pro Gly Pro Pro Gly Leu
1265              1270              1275              1280
  Pro Gly Ser Val Asp Leu Leu Arg Gly Glu Pro Gly Asp Cys Gly Leu
            1285              1290              1295
  Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Tyr Lys
            1300              1305              1310
  Gly Phe Pro Gly Cys Asp Gly Lys Asp Gly Gln Lys Gly Pro Val Gly
       1315              1320              1325
  Phe Pro Gly Pro Gln Gly Pro His Gly Phe Pro Gly Pro Pro Gly Glu
     1330              1335              1340
  Lys Gly Leu Pro Gly Pro Pro Gly Arg Lys Gly Pro Thr Gly Leu Pro
1345              1350              1355              1360
  Gly Pro Arg Gly Glu Pro Gly Pro Pro Ala Asp Val Asp Asp Cys Pro
            1365              1370              1375
  Arg Ile Pro Gly Leu Pro Gly Ala Pro Gly Met Arg Gly Pro Glu Gly
       1380              1385              1390
  Ala Met Gly Leu Pro Gly Met Arg Gly Pro Ser Gly Pro Gly Cys Lys
     1395              1400              1405
  Gly Glu Pro Gly Leu Asp Gly Arg Arg Gly Val Asp Gly Val Pro Gly
       1410              1415              1420
  Ser Pro Gly Pro Pro Gly Arg Lys Gly Asp Thr Gly Glu Asp Gly Tyr
1425              1430              1435              1440
  Pro Gly Gly Pro Gly Pro Pro Gly Pro Ile Gly Asp Pro Gly Pro Lys
            1445              1450              1455
  Gly Phe Gly Pro Gly Tyr Leu Gly Gly Phe Leu Leu Val Leu His Ser
            1460              1465              1470
  Gln Thr Asp Gln Glu Pro Thr Cys Pro Leu Gly Met Pro Arg Leu Trp
       1475              1480              1485
  Thr Gly Tyr Ser Leu Leu Tyr Leu Glu Gly Gln Glu Lys Ala His Asn
     1490              1495              1500
  Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu Pro Val Phe Ser Thr Leu
1505              1510              1515              1520
  Pro Phe Ala Tyr Cys Asn Ile His Gln Val Cys His Tyr Ala Gln Arg
            1525              1530              1535
  Asn Asp Arg Ser Tyr Trp Leu Ala Ser Ala Ala Pro Leu Pro Met Met
       1540              1545              1550
  Pro Leu Ser Glu Glu Ala Ile Arg Pro Tyr Val Ser Arg Cys Ala Val
     1555              1560              1565
  Cys Glu Ala Pro Ala Gln Ala Val Ala Val His Ser Gln Asp Gln Ser
       1570              1575              1580
  Ile Pro Pro Cys Pro Gln Thr Trp Arg Ser Leu Trp Ile Gly Tyr Ser
1585              1590              1595              1600
  Phe Leu Met His Thr Gly Ala Gly Asp Gln Gly Gly Gly Gln Ala Leu
            1605              1610              1615
```

```
Met Ser Pro Gly Ser Cys Leu Glu Asp Phe Arg Ala Ala Pro Phe Leu
         1620                1625                1630
Glu Cys Gln Gly Arg Gln Gly Thr Cys His Phe Phe Ala Asn Lys Tyr
         1635                1640                1645
Ser Phe Trp Leu Thr Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala
     1650                1655                1660
Pro Ala Pro Asp Thr Leu Lys Glu Ser Gln Ala Gln Arg Gln Lys Ile
1665                1670                1675                1680
Ser Arg Cys Gln Val Cys Val Lys Tyr Ser  *
              1685                1690
```

```
<210> 1442
<211> 153
<212> PRT
<213> Homo sapiens
```

```
<400> 1442
Met Gly Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Leu Gly Ala
1             5                10                15
Leu Ala Leu Thr Glu Thr Trp Ala Gly Glu Cys Gly Val Gly Arg Glu
         20                25                30
Arg Ala Ser Ala Gly Arg Ser Glu Trp Pro Ala Arg Pro Gly Glu Pro
         35                40                45
Arg Arg Glu Glu Gly Arg Ala Gly Leu Ser Leu Ser Ser Pro Pro Gly
     50                55                60
Ser His Ser Leu Arg Tyr Phe Ser Thr Ala Val Ser Gln Pro Gly Arg
65                70                75                80
Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
              85                90                95
Val Arg Phe Asp Ser Asp Ser Val Ser Pro Arg Met Glu Arg Arg Ala
         100                105                110
Pro Trp Val Glu Gln Glu Gly Leu Glu Tyr Trp Asp Gln Glu Thr Arg
     115                120                125
Asn Ala Lys Gly His Ala Gln Ile Tyr Arg Val Asn Leu Arg Thr Leu
     130                135                140
Leu Arg Tyr Tyr Asn Gln Ser Glu Ala
145                150        153
```

```
<210> 1443
<211> 58
<212> PRT
<213> Homo sapiens
```

```
<400> 1443
Met Ser Leu Leu Cys Leu Lys Phe Phe Ser Gly Leu Trp Thr Ile Thr
1             5                10                15
Phe Ser Lys Gly Ala Lys Ile Ile His Trp Gly Arg Ser Leu Phe Asn
         20                25                30
Trp Ile Ser Met Cys Lys Arg Met Lys Leu Asp Pro Tyr Ser Tyr His
         35                40                45
Thr Gln Lys Leu Thr Gln Asn Gly Ser  *
     50                55        57
```

```
<210> 1444
<211> 69
<212> PRT
<213> Homo sapiens


<400> 1444
Met Pro Val Pro Leu Ala Tyr Phe Gln Ser Ser Ile Val Leu Phe Pro
1               5                   10                  15
Leu Ile Phe Ser Leu Val Thr Cys Val Ser Leu Asp Gly Glu Pro Lys
            20                  25                  30
Ser Val Val Gly Val Ile Ser Ile Ser Ala Tyr Tyr Arg Ala Ile Ser
        35                  40                  45
Ile Leu Leu Ile Phe Ser Lys Ser Phe Cys Cys Ala Ser Leu Ala Gly
    50                  55                  60
Val Leu Val Ile *
65              68
```


```
<210> 1445
<211> 826
<212> PRT
<213> Homo sapiens


<400> 1445
Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
1               5                   10                  15
Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
            20                  25                  30
Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
        35                  40                  45
Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
    50                  55                  60
Val Phe Leu Leu Ser Glu Ala His Thr Cys Val Pro Glu Asn Asn Gly
65                  70                  75                  80
Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
                85                  90                  95
Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
            100                 105                 110
Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
        115                 120                 125
Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser
    130                 135                 140
Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
145                 150                 155                 160
Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
                165                 170                 175
Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
            180                 185                 190
Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
        195                 200                 205
Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
    210                 215                 220
Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
225                 230                 235                 240
```

```
Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
              245                   250                   255
Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
              260                   265                   270
Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
              275                   280                   285
Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
         290                   295                   300
Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
305                   310                   315                   320
Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
              325                   330                   335
Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
              340                   345                   350
Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
         355                   360                   365
Val Glu Cys Glu Glu Glu Glu Glu Val Glu Glu Glu Lys Gly Ser Phe
         370                   375                   380
Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
385                   390                   395                   400
Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
              405                   410                   415
Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
              420                   425                   430
Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
         435                   440                   445
Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
         450                   455                   460
Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
465                   470                   475                   480
Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
              485                   490                   495
Tyr Arg Ser Phe Ser Asn Ser Leu Ser Gln Ser Pro Cys Pro Arg Glu
              500                   505                   510
Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
         515                   520                   525
Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
         530                   535                   540
Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
545                   550                   555                   560
His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Gln
              565                   570                   575
Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
              580                   585                   590
Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
         595                   600                   605
Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
    610                   615                   620
Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
625                   630                   635                   640
Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
              645                   650                   655
Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
              660                   665                   670
Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
         675                   680                   685
Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
    690                   695                   700
Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu
```

822

```
705                          710                          715                          720
Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
                    725                          730                          735
Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ala
            740                          745                          750
Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
        755                          760                          765
Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
    770                          775                          780
Ile Ser Glu Lys Ser Lys Ser Ser Ser Phe His Pro Ala Pro Gly
785                          790                          795                          800
Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
                805                          810                          815
Val Gly Pro Thr Tyr Met Arg Val Ser  *
            820                          825
```

```
<210> 1446
<211> 367
<212> PRT
<213> Homo sapiens


<400> 1446
Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
1               5                       10                      15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
            20                      25                      30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
        35                      40                      45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
    50                      55                      60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
65                      70                      75                      80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
                85                      90                      95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
            100                     105                     110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
        115                     120                     125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
    130                     135                     140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
145                     150                     155                     160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
                165                     170                     175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
            180                     185                     190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
        195                     200                     205
Gly Arg Arg Gly Ile Leu Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
    210                     215                     220
Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile
225                     230                     235                     240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
                245                     250                     255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
            260                     265                     270
```

```
Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
        275                 280                 285
Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
        290                 295                 300
Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
305                 310                 315                 320
Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
                325                 330                 335
Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
            340                 345                 350
Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu  *
            355                 360                 365 366


    <210> 1447
    <211> 79
    <212> PRT
    <213> Homo sapiens


    <400> 1447
Met Ala Ile Ser Trp Leu Gly Thr Trp Leu Leu Gln Ser His Arg His
1                 5                 10                 15
Trp Ser Glu Pro Gln Leu Cys Arg Leu Pro Ala Arg His His Leu Ile
            20                  25                  30
Asn Leu Asn Phe Met Val Ala Glu Gly Ile Gly Asp Arg Ala Trp His
        35                  40                  45
Ile Ile Ser Ala Gln Leu Phe Met Thr Phe Ser Phe His Ala Val Ile
        50                  55                  60
Leu Gln Thr Asp Leu Gly Glu Ala Gly Lys Tyr Lys Asp Lys  *
65                  70                  75          78


    <210> 1448
    <211> 276
    <212> PRT
    <213> Homo sapiens


    <400> 1448
Met Val Trp Val Val Leu Leu Ser Leu Leu Cys Tyr Leu Val Leu Phe
1                 5                 10                  15
Leu Cys Arg His Ser Ser His Arg Gly Val Phe Leu Ser Val Thr Ile
            20                  25                  30
Leu Ile Tyr Leu Leu Met Gly Glu Met His Met Val Asp Thr Val Thr
        35                  40                  45
Trp His Lys Met Arg Gly Ala Gln Met Ile Val Ala Met Lys Ala Val
        50                  55                  60
Ser Leu Gly Phe Asp Leu Asp Arg Gly Glu Val Gly Thr Val Pro Ser
65                  70                  75                  80
Pro Val Glu Phe Met Gly Tyr Leu Tyr Phe Val Gly Thr Ile Val Phe
                85                  90                  95
Gly Pro Trp Ile Ser Phe His Ser Tyr Leu Gln Ala Val Gln Gly Arg
            100                 105                 110
Pro Leu Ser Cys Arg Trp Leu Gln Lys Val Ala Arg Ser Leu Ala Leu
        115                 120                 125
Ala Leu Leu Cys Leu Val Leu Ser Thr Cys Val Gly Pro Tyr Leu Phe
```

```
         130                    135                    140
Pro Tyr Phe Ile Pro Leu Asn Gly Asp Arg Leu Leu Arg Lys Trp Leu
145                     150                    155                    160
Arg Ala Tyr Glu Ser Ala Val Ser Phe His Phe Ser Asn Tyr Phe Val
                165                    170                    175
Gly Phe Leu Ser Glu Ala Thr Ala Thr Leu Ala Gly Ala Gly Phe Thr
                180                    185                    190
Glu Glu Lys Asp His Leu Glu Trp Asp Leu Thr Val Ser Lys Pro Leu
                195                    200                    205
Asn Val Glu Leu Pro Arg Ser Met Val Glu Val Val Thr Ser Trp Asn
210                     215                    220
Leu Pro Met Ser Tyr Trp Leu Asn Asn Tyr Gly Phe Lys Asn Ala Leu
225                     230                    235                    240
Arg Leu Gly Thr Leu Leu Gly Cys Ala Gly His Leu Cys Ser Gln Arg
                245                    250                    255
Pro Ser Lys Leu Leu Lys Phe Pro Pro Gly Trp Gly Pro Cys Cys Pro
                260                    265                    270
Gly Phe Leu  *
        275


         <210> 1449
         <211> 597
         <212> PRT
         <213> Homo sapiens


         <400> 1449
Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
  1               5                   10                    15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
                20                     25                   30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
            35                     40                   45
Ser Ser Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
        50                     55                   60
Val Trp Val Ser Arg Ile Asn Thr Asp Gly Ser Ser Thr Ser Tyr Ala
65                     70                     75                    80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
                85                     90                    95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
                100                    105                   110
Tyr Tyr Cys Ala Arg Ala Asp Asn Cys Ser Ser Thr Ser Cys Tyr Lys
            115                    120                   125
Cys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
        130                    135                   140
Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser
145                     150                    155                   160
Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe
                165                    170                   175
Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser Asp
                180                    185                   190
Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys Tyr
                195                    200                   205
Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln Gly
        210                    215                   220
Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn Lys
225                     230                    235                   240
```

```
Glu Lys Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys Val
             245                     250                 255
Ser Val Phe Val Pro Pro Arg Asp Gly Phe Phe Gly Asn Pro Arg Lys
             260                 265                 270
Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg Gln Ile Gln
             275                 280                 285
Val Ser Trp Leu Arg Glu Gly Lys Gln Val Gly Ser Gly Val Thr Thr
             290             295                 300
Asp Gln Val Gln Ala Glu Ala Lys Glu Ser Gly Pro Thr Thr Tyr Lys
305                 310                 315                 320
Val Thr Ser Thr Leu Thr Ile Lys Glu Ser Asp Trp Leu Ser Gln Ser
             325                 330                 335
Met Phe Thr Cys Arg Val Asp His Arg Gly Leu Thr Phe Gln Gln Asn
             340                 345                 350
Ala Ser Ser Met Cys Val Pro Asp Gln Asp Thr Ala Ile Arg Val Phe
             355                 360                 365
Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys Ser Thr Lys
             370             375                 380
Leu Thr Cys Leu Val Thr Asp Leu Thr Thr Tyr Asp Ser Val Thr Ile
385                 390                 395                 400
Ser Trp Thr Arg Gln Asn Gly Glu Ala Val Lys Thr His Thr Asn Ile
             405                 410                 415
Ser Glu Ser His Pro Asn Ala Thr Phe Ser Ala Val Gly Glu Ala Ser
             420                 425                 430
Ile Cys Glu Asp Asp Trp Asn Ser Gly Glu Arg Phe Thr Cys Thr Val
             435                 440                 445
Thr His Thr Asp Leu Pro Ser Pro Leu Lys Gln Thr Ile Ser Arg Pro
             450                 455                 460
Lys Gly Val Ala Leu His Arg Pro Asp Val Tyr Leu Leu Pro Pro Ala
465                 470                 475                 480
Arg Glu Gln Leu Asn Leu Arg Glu Ser Ala Thr Ile Thr Cys Leu Val
             485                 490                 495
Thr Gly Phe Ser Pro Ala Asp Val Phe Val Gln Trp Met Gln Arg Gly
             500                 505                 510
Gln Pro Leu Ser Pro Glu Lys Tyr Val Thr Ser Ala Pro Met Pro Glu
             515                 520                 525
Pro Gln Ala Pro Gly Arg Tyr Phe Ala His Ser Ile Leu Thr Val Ser
             530                 535                 540
Glu Glu Glu Trp Asn Thr Gly Glu Thr Tyr Thr Cys Val Val Ala His
545                 550                 555                 560
Glu Ala Leu Pro Asn Arg Val Thr Glu Arg Thr Val Asp Lys Ser Thr
             565                 570                 575
Gly Lys Pro Thr Leu Tyr Asn Val Ser Leu Val Met Ser Asp Thr Ala
             580                 585                 590
Gly Thr Cys Tyr   *
595 596
```

```
<210> 1450
<211> 276
<212> PRT
<213> Homo sapiens


<400> 1450
Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
1                5                   10                  15
Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr
```

```
                    20                      25                      30
Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
            35                      40                      45
Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
        50                      55                      60
Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
65                      70                      75                      80
Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
                85                      90                      95
Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
                100                     105                     110
Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
        115                     120                     125
Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
    130                     135                     140
Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
145                     150                     155                     160
Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
                165                     170                     175
Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
                180                     185                     190
Gln His Gly Gly Ile Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
        195                     200                     205
Cys Leu Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
    210                     215                     220
Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly
225                     230                     235                     240
Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Glu Thr Val Arg Arg Gly
                245                     250                     255
Thr Glu Leu Trp Glu Arg Asp Arg Glu Val Trp Asn Gly Lys Glu His
            260                     265                     270
Asp Glu Asn  *
            275
```

```
        <210> 1451
        <211> 121
        <212> PRT
        <213> Homo sapiens


        <400> 1451
Met Glu Ser Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
1               5                       10                      15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
            20                      25                      30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe
        35                      40                      45
Asp Glu Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
    50                      55                      60
Glu Trp Val Gly Gly Ile Ser Trp Asn Arg Asp Ser Ile Ala Tyr Ala
65                      70                      75                      80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Ser
                85                      90                      95
Tyr Val Tyr Leu Gln Met Asn Ser Leu Arg His Glu Asp Thr Ala Leu
                100                     105                     110
Tyr Tyr Cys Thr Lys Leu Arg Ser Ser
            115                     120 121
```

<210> 1452
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1452
Met Glu Arg Gly Asn Ala Leu Val Val Leu Arg Ser Leu Leu Trp Pro
1   5   10   15
Gly Leu Thr Phe Tyr His Ala Pro Arg Thr Lys Asn Tyr Gly Tyr Val
            20   25   30
Tyr Val Gly Thr Gly Glu Lys Asn Met Asp Leu Pro Phe Met Leu *
        35   40   45   47

<210> 1453
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1453
Met Ile Thr Val Gln Phe Ser Tyr Thr Ala Val Lys Trp Leu Leu Asn
1   5   10   15
Cys Phe Val Leu Ile Leu Tyr Val Ile Leu Ser Ile Leu Phe Gln Val
            20   25   30
Ser Gln Lys Asn Ser Ser Lys Leu Gly Arg Phe Lys Asn Leu Phe Asn
        35   40   45
His Lys Glu Cys Ser Lys Leu Leu Phe Asn Arg Asn Gln Ala Gln Thr
    50   55   60
Leu Glu Leu Thr Ala Asp Arg Ile Arg Phe Gly Leu Phe Pro Glu Trp
65   70   75   80
Lys His Phe Ser His Thr Thr Ser Leu Cys Thr Ala Lys Met Leu Ala
            85   90   95
Tyr Pro Leu Trp Phe Pro Ser Phe Ser Leu Ala Ser Gln Arg Asn Leu
            100   105   110
Pro Pro His Pro Leu Tyr Tyr Ile Phe Tyr *
        115   120   122

<210> 1454
<211> 327
<212> PRT
<213> Homo sapiens

<400> 1454
Met Arg Glu Trp Trp Val Gln Val Gly Leu Leu Ala Val Pro Leu Leu
1   5   10   15
Ala Ala Tyr Leu His Ile Pro Pro Gln Leu Ser Pro Ala Leu His
            20   25   30
Ser Trp Lys Ser Ser Gly Lys Phe Phe Thr Tyr Lys Gly Leu Arg Ile
        35   40   45
Phe Tyr Gln Asp Ser Val Gly Val Val Gly Ser Pro Glu Ile Val Val

```
     50                    55                    60
Leu Leu His Gly Phe Pro Thr Ser Ser Tyr Asp Trp Tyr Lys Ile Trp
 65                    70                    75                    80
Glu Gly Leu Thr Leu Arg Phe His Arg Val Ile Ala Leu Asp Phe Leu
                  85                    90                    95
Gly Phe Gly Phe Ser Asp Lys Pro Arg Pro His His Tyr Ser Ile Phe
                 100                   105                   110
Glu Gln Ala Ser Ile Val Glu Ala Leu Leu Arg His Leu Gly Leu Gln
                 115                   120                   125
Asn Arg Arg Ile Asn Leu Leu Ser His Asp Tyr Gly Asp Ile Val Ala
             130                   135                   140
Gln Glu Leu Leu Tyr Arg Tyr Lys Gln Asn Arg Ser Gly Arg Leu Thr
145                   150                   155                   160
Ile Lys Ser Leu Cys Leu Ser Asn Gly Gly Ile Phe Pro Glu Thr His
                 165                   170                   175
Arg Pro Leu Leu Leu Gln Lys Leu Leu Lys Asp Gly Gly Val Leu Ser
                 180                   185                   190
Pro Ile Leu Thr Arg Leu Met Asn Phe Phe Val Phe Ser Arg Gly Leu
             195                   200                   205
Thr Pro Val Phe Gly Pro Tyr Thr Arg Pro Ser Glu Ser Glu Leu Trp
         210                   215                   220
Asp Met Trp Ala Gly Ile Arg Asn Asn Asp Gly Asn Leu Val Ile Asp
225                   230                   235                   240
Ser Leu Leu Gln Tyr Ile Asn Gln Arg Lys Lys Phe Arg Arg Arg Trp
                 245                   250                   255
Val Gly Ala Leu Ala Ser Val Thr Ile Pro Ile His Phe Ile Tyr Gly
             260                   265                   270
Pro Leu Asp Pro Val Asn Pro Tyr Pro Glu Phe Leu Glu Leu Tyr Arg
         275                   280                   285
Lys Thr Leu Pro Arg Ser Thr Val Ser Ile Leu Asp Asp His Ile Ser
         290                   295                   300
His Tyr Pro Gln Leu Glu Asp Pro Met Gly Phe Leu Asn Ala Tyr Met
305                   310                   315                   320
Gly Phe Ile Asn Ser Phe  *
                 325 326
```

```
        <210> 1455
        <211> 57
        <212> PRT
        <213> Homo sapiens


        <400> 1455
Met Ile Leu Leu Lys Val Cys Ser Ala Ala Ser Leu Leu Gly Glu Gly
 1               5                    10                   15
Phe Met Asn Gln Val Thr Ser Thr Asn Lys Ala Ser Leu Ser Leu Leu
             20                   25                   30
Ser Leu Thr Met Lys Val Ala Val Asn Lys Gly Lys Lys Glu Arg Glu
         35                   40                   45
Leu Phe Ile Pro Phe Gln Phe Gln  *
     50                   55  56


        <210> 1456
        <211> 48
        <212> PRT
```

<213> Homo sapiens

<400> 1456
Met His Cys Ile Phe Ser Cys Leu Leu Trp Cys Ile Gln Leu Pro Ser
1   5   10   15
Met Leu Ser Val Leu Lys Thr Gln Pro Ser Lys Asn His Pro Leu Trp
            20   25   30
Pro Cys Lys Tyr Ala Tyr Asn Ile Phe Phe Phe Leu Cys Ile Ile *
            35   40   45 47

<210> 1457
<211> 459
<212> PRT
<213> Homo sapiens

<400> 1457
Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
1   5   10   15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
            20   25   30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
        35   40   45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
        50   55   60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
65   70   75   80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
                85   90   95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
            100   105   110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
        115   120   125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
    130   135   140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
145   150   155   160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
                165   170   175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
            180   185   190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
        195   200   205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
    210   215   220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
225   230   235   240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
                245   250   255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
            260   265   270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
        275   280   285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
    290   295   300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu

```
305                    310                   315                    320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
                325                   330                   335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
                340                   345                   350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
                355                   360                   365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
    370                   375                   380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385                   390                   395                   400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
                405                   410                   415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
                420                   425                   430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
                435                   440                   445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala   *
    450                   455                   458
```

```
<210> 1458
<211> 463
<212> PRT
<213> Homo sapiens
```

```
<400> 1458
Met Ala Arg Val Leu Gly Ala Pro Val Ala Leu Gly Leu Trp Ser Leu
1                   5                   10                    15
Cys Trp Ser Leu Ala Ile Ala Thr Pro Leu Pro Pro Thr Ser Ala His
                20                   25                   30
Gly Asn Val Ala Glu Gly Glu Thr Lys Pro Asp Pro Asp Val Thr Glu
                35                   40                   45
Arg Cys Ser Asp Gly Trp Ser Phe Asp Ala Thr Thr Leu Asp Asp Asn
    50                   55                   60
Gly Thr Met Leu Phe Phe Lys Gly Glu Phe Val Trp Lys Ser His Lys
65                   70                   75                   80
Trp Asp Arg Glu Leu Ile Ser Glu Arg Trp Lys Asn Phe Pro Ser Pro
                85                   90                   95
Val Asp Ala Ala Phe Arg Gln Gly His Asn Ser Val Phe Leu Ile Lys
                100                   105                   110
Gly Asp Lys Val Trp Val Tyr Pro Pro Glu Lys Lys Glu Lys Gly Tyr
                115                   120                   125
Pro Lys Leu Leu Gln Asp Glu Phe Pro Gly Ile Pro Ser Pro Leu Asp
    130                   135                   140
Ala Ala Val Glu Cys His Arg Gly Glu Cys Gln Ala Glu Gly Val Leu
145                   150                   155                   160
Phe Phe Gln Gly Asp Arg Glu Trp Phe Trp Asp Leu Ala Thr Gly Thr
                165                   170                   175
Met Lys Glu Arg Ser Trp Pro Ala Val Gly Asn Cys Ser Ser Ala Leu
                180                   185                   190
Arg Trp Leu Gly Arg Tyr Tyr Cys Phe Gln Gly Asn Gln Phe Leu Arg
                195                   200                   205
Phe Asp Pro Val Arg Gly Glu Val Pro Pro Arg Tyr Pro Arg Asp Val
    210                   215                   220
Arg Asp Tyr Phe Met Pro Cys Pro Gly Arg Gly His Gly His Arg Asn
225                   230                   235                   240
```

```
Gly Thr Gly His Gly Asn Ser Thr His His Gly Pro Glu Tyr Met Arg
            245                 250                 255
Cys Ser Pro His Leu Val Leu Ser Ala Leu Thr Ser Asp Asn His Gly
            260                 265                 270
Ala Thr Tyr Ala Phe Ser Gly Thr His Tyr Trp Arg Leu Asp Thr Ser
            275                 280                 285
Arg Asp Gly Trp His Ser Trp Pro Ile Ala His Gln Trp Pro Gln Gly
            290                 295                 300
Pro Ser Ala Val Asp Ala Ala Phe Ser Trp Glu Glu Lys Leu Tyr Leu
305                 310                 315                 320
Val Gln Gly Thr Gln Val Tyr Val Phe Leu Thr Lys Gly Gly Tyr Thr
                325                 330                 335
Leu Val Ser Gly Tyr Pro Lys Arg Leu Glu Lys Glu Val Gly Thr Pro
            340                 345                 350
His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys Pro Gly
            355                 360                 365
Ser Ser Arg Leu His Ile Met Ala Gly Arg Arg Leu Trp Trp Leu Asp
    370                 375                 380
Leu Lys Ser Gly Ala Gln Ala Thr Trp Thr Glu Leu Pro Trp Pro His
385                 390                 395                 400
Glu Lys Val Asp Gly Ala Leu Cys Met Glu Lys Ser Leu Gly Pro Asn
            405                 410                 415
Ser Cys Ser Ala Asn Gly Pro Gly Leu Tyr Leu Ile His Gly Pro Asn
            420                 425                 430
Leu Tyr Cys Tyr Ser Asp Val Glu Lys Leu Asn Ala Ala Lys Ala Leu
    435                 440                 445
Pro Gln Pro Gln Asn Val Thr Ser Leu Leu Gly Cys Thr His    *
450                 455                 460     462
```

<210> 1459
<211> 187
<212> PRT
<213> Homo sapiens

<400> 1459

```
Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
1               5                   10                  15
Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
            20                  25                  30
Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
            35                  40                  45
His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
    50                  55                  60
Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
65                  70                  75                  80
His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
                85                  90                  95
Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
            100                 105                 110
Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
            115                 120                 125
Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
    130                 135                 140
Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
145                 150                 155                 160
Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn
```

832

```
                    165                 170                   175
Val Arg Gly Lys Val Ala Val Asp Leu Phe  *
                180              185 186
```

```
        <210> 1460
        <211> 223
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1460
Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala Leu Thr Leu Ser Phe
1               5                   10                  15
Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro Phe Ala Gly Val Ser
            20                  25                  30
Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn Leu Ile Ala Pro Cys
        35                  40                  45
Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr Tyr Pro Val Cys Gly
    50                  55                  60
Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala Gly Cys Ser Asn Pro
65                  70                  75                  80
Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn Cys Ser Cys Ile Glu
                85                  90                  95
Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr Phe Gly Phe Glu Ala
            100                 105                 110
Asn Ala Gly Lys Cys Glu Thr His Cys Ala Lys Leu Ala Ile Phe Leu
            115                 120                 125
Cys Ile Val Phe Ile Gly Asn Ile Phe Thr Phe Met Ala Arg Ser Pro
    130                 135                 140
Ile Thr Gly Ala Ile Pro Arg Gly Gly Asn His Arg Gln Arg Pro Pro
145                 150                 155                 160
Thr Leu Gly Ile Gln Phe Met Ala Leu Arg Thr Leu Trp Thr Thr Pro
                165                 170                 175
Trp Pro Ser Lys Thr Gly Cys Pro Ile His Gln Pro Gly Ser Leu Trp
                180                 185                 190
Glu Lys Leu Gly Trp Arg Pro Leu Lys Thr Leu Arg Arg Pro Lys Pro
            195                 200                 205
Ser Trp Asn Ala Leu Leu Ala Leu Ala His Pro Arg Ser Phe Gln
    210                 215                 220     223
```

```
        <210> 1461
        <211> 210
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1461
Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
1               5                   10                  15
Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
            20                  25                  30
Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
        35                  40                  45
Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
    50                  55                  60
```

Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
65   70   75   80
Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
            85   90   95
His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
            100   105   110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
            115   120   125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
        130   135   140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
145   150   155   160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
            165   170   175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
            180   185   190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
            195   200   205
His *
209

        <210> 1462
        <211> 56
        <212> PRT
        <213> Homo sapiens

        <400> 1462
Met Ala Val Arg Val Leu Trp Gly Gly Leu Ser Leu Leu Arg Val Leu
1   5   10   15
Trp Cys Leu Leu Pro Gln Thr Gly Tyr Val His Pro Asp Glu Phe Phe
            20   25   30
Gln Ser Pro Glu Val Met Ala Gly Lys Thr Pro His Val Trp Leu Arg
        35   40   45
Gln Ala Ala Ala Glu Ser Ala *
    50   55

        <210> 1463
        <211> 66
        <212> PRT
        <213> Homo sapiens

        <400> 1463
Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val Tyr
1   5   10   15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Cys
            20   25   30
Pro Gly Val Cys Gly Cys Gly Pro Ala Gly Ser Cys Ser Pro Pro Ser
        35   40   45
Cys Cys Trp Pro Ser Ser Arg Gly Gly Gln Pro Gly Ser Arg Leu Ala
    50   55   60
Pro Leu
65 66

```
<210> 1464
<211> 200
<212> PRT
<213> Homo sapiens


<400> 1464
Met Val Trp Arg Arg Leu Leu Arg Lys Arg Trp Val Leu Ala Leu Val
1               5                   10                  15
Phe Gly Leu Ser Leu Val Tyr Phe Leu Ser Ser Thr Phe Lys Gln Glu
            20                  25                  30
Glu Arg Ala Val Arg Asp Arg Asn Leu Leu Gln Val His Asp His Asn
        35                  40                  45
Gln Pro Ile Pro Trp Lys Val Gln Phe Asn Leu Gly Asn Ser Ser Arg
    50                  55                  60
Pro Ser Asn Gln Cys Arg Asn Ser Ile Gln Gly Lys His Leu Ile Thr
65                  70                  75                  80
Asp Glu Leu Gly Tyr Val Cys Glu Arg Lys Asp Leu Leu Val Asn Gly
            85                  90                  95
Cys Cys Asn Val Asn Val Pro Ser Thr Lys Gln Tyr Cys Cys Asp Gly
            100                 105                 110
Cys Trp Pro Asn Gly Cys Cys Ser Ala Tyr Glu Tyr Cys Val Ser Cys
        115                 120                 125
Cys Leu Gln Pro Asn Lys Gln Leu Leu Leu Glu Arg Phe Leu Asn Arg
    130                 135                 140
Ala Ala Val Ala Phe Gln Asn Leu Phe Met Ala Val Glu Asp His Phe
145                 150                 155                 160
Glu Leu Cys Leu Ala Lys Cys Arg Thr Ser Ser Gln Ser Val Gln His
            165                 170                 175
Glu Asn Thr Tyr Arg Asp Pro Ile Ala Lys Tyr Cys Tyr Gly Glu Ser
            180                 185                 190
Pro Pro Glu Leu Phe Pro Ala   *
    195                 199


<210> 1465
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1465
Met Gln Leu Ile Arg Arg Ser His Asn Arg His Trp Phe Arg Ser Ala
1               5                   10                  15
Ile Thr Phe Leu Met Cys Lys Gly Ile Thr Leu Leu Trp Leu Trp Lys
            20                  25                  30
Leu Leu Thr Gly Asn Asp Cys Ile Glu Tyr Ile Arg Lys   *
        35                  40                  45


<210> 1466
<211> 56
<212> PRT
<213> Homo sapiens
```

```
<400> 1466
Met Arg Leu Leu Phe Ser Ser Gln Val Asn Ser Lys Arg Leu Thr Ala
1               5                   10                  15
Ser Arg Ala Phe Leu Val Leu Val Pro Ala His Leu Ser Tyr Leu Leu
            20                  25                  30
Ala Leu Pro Ser Ile Pro Ala Thr Arg Gly Phe Trp Phe Lys Asp Thr
            35                  40                  45
Val Phe Leu Ser Cys Ser Ala  *
        50                  55
```

```
<210> 1467
<211> 366
<212> PRT
<213> Homo sapiens
```

```
<400> 1467
Met Arg Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Leu Lys Val
1               5                   10                  15
Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile
            20                  25                  30
Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
        35                  40                  45
Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
    50                  55                  60
His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
65                  70                  75                  80
Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
            85                  90                  95
Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
            100                 105                 110
Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
        115                 120                 125
Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
    130                 135                 140
Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
145                 150                 155                 160
Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
                165                 170                 175
Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
            180                 185                 190
Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
        195                 200                 205
Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
    210                 215                 220
Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
225                 230                 235                 240
Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
                245                 250                 255
Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
            260                 265                 270
Lys Thr Arg Arg Asn His Glu Gln Glu Gln Thr Phe Pro Gly Gly Gly
        275                 280                 285
Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
    290                 295                 300
Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys
```

```
305                     310                     315                     320
Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
                    325                     330                     335 ·
Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg
                340                     345                     350
Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser  *
                355                     360                     365
```

```
        <210> 1468
        <211> 57
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1468
Met Thr Asp Phe Phe Leu Cys Ile His Ser Phe Tyr Leu Cys Val Leu
1                   5                       10                      15
Leu Gln Ala Ser Leu Asp Met Leu Ser Val Lys Ser Phe Ser Phe Lys
                20                      25                      30
Val Leu Cys Leu Met Lys Ala Lys Glu Lys Pro Asn Thr Thr Ser Cys
                35                      40                      45 ·
His Leu Val Ile Asp Ser Asn Ser Thr
        50                  55      57
```

```
        <210> 1469
        <211> 110
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1469
Met Leu Glu Ile Leu Leu Lys Leu Val Arg Leu Leu Thr Thr Gln Pro
1                   5                   10                      15
Tyr Leu Thr Leu Phe Gln Ala Val Arg Asn Leu Ala Leu Asn Leu Ser
                20                      25                      30
Thr Ser Ser Gly Ser Leu Gly Pro Ala Pro Gly Glu Pro Arg Ala Gly
        35                      40                      45
Pro Leu Ala Pro Glu Gly Pro Arg Pro Leu Gly Ser Gly Pro Leu Gly
    50                      55                      60
Pro Arg Gly Leu Arg Ala Ser Gly Arg Arg Ala Ser Ser Gly Leu
65                      70                      75                      80
Leu Leu Arg Tyr Cys Ala Ala Ala Gly Asp Thr Glu Phe Met Asp Ala
                85                      90                      95
Pro Gly Gly Arg Thr Glu Gly Pro Gly Gly Gly Leu Arg Pro
                100                     105                     110
```

```
        <210> 1470
        <211> 59
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1470
```

```
Met Met Cys Arg Cys Met Cys Ala Cys Val Cys Ala Pro Val Cys Val
1                   5                   10                  15
His Met His Gly Leu Ala Pro Ala Pro Ala Ile Trp Ile Glu Gln Phe
                20                  25                  30
Trp Val Glu Asn Phe Phe Ser Pro Phe Leu Lys Val Ser Phe Tyr Ser
            35                  40                  45
Leu Pro Val Cys Ile Glu Lys Ser Ser Ile  *
        50                  55          58
```

```
<210> 1471
<211> 123
<212> PRT
<213> Homo sapiens
```

```
<400> 1471
Met Met His Phe Leu Thr Gly Gly Trp Lys Val Leu Phe Ala Cys Val
1                   5                   10                  15
Pro Pro Thr Glu Tyr Cys His Gly Trp Ala Cys Phe Gly Val Ser Ile
                20                  25                  30
Leu Val Ile Gly Leu Leu Thr Ala Leu Ile Gly Asp Leu Ala Ser His
            35                  40                  45
Phe Gly Cys Thr Val Gly Leu Lys Asp Ser Val Asn Ala Val Val Phe
        50                  55                  60
Val Ala Leu Gly Thr Ser Ile Pro Gly Asn Thr Leu Gly Asp Phe Gly
65                  70                  75                  80
Gly Val Gly Ser Gln Met Ser Gln Ala Gly Ala Thr Gln Asp Pro Ala
                85                  90                  95
Glu Met Arg His Val Arg Gln Gln Gly Gly Gly Ala Ala Gly Pro Val
                100                 105                 110
Arg Arg Arg Val His Arg Glu Arg Asp Pro Leu
        115                 120     123
```

```
<210> 1472
<211> 316
<212> PRT
<213> Homo sapiens
```

```
<400> 1472
Met Val Ser Ala Ser Gly Thr Ser Phe Phe Lys Gly Met Leu Leu Gly
1                   5                   10                  15
Ser Ile Ser Trp Val Leu Ile Thr Met Phe Gly Gln Ile His Ile Arg
                20                  25                  30
His Arg·Gly Gln Thr Gln Asp His Glu His His Leu Arg Pro Pro
            35                  40                  45
Asn Arg Asn Asp Phe Leu Asn Thr Ser Lys Val Ile Leu Leu Glu Leu
        50                  55                  60
Ser Lys Ser Ile Arg Val Phe Cys Ile Ile Phe Gly Glu Ser Glu Asp
65                  70                  75                  80
Glu Ser Tyr Trp Ala Val Leu Lys Glu Thr Trp Thr Lys His Cys Asp
                85                  90                  95
Lys Ala Glu Leu Tyr Asp Thr Lys Asn Asp Asn Leu Phe Asn Ile Glu
                100                 105                 110
Ser Asn Asp Arg Trp Val Gln Met Arg Thr Ala Tyr Lys Tyr Val Phe
```

```
            115                  120                  125
Glu Lys Asn Gly Asp Asn Tyr Asn Trp Phe Phe Leu Ala Leu Pro Thr
    130                  135                  140
Thr Phe Ala Val Ile Glu Asn Leu Lys Tyr Leu Leu Phe Thr Arg Asp
145                  150                  155                  160
Ala Ser Gln Pro Phe Tyr Leu Gly His Thr Val Ile Phe Gly Asp Leu
                165                  170                  175
Glu Tyr Val Thr Val Glu Gly Gly Ile Val Leu Ser Arg Glu Leu Met
            180                  185                  190
Lys Arg Leu Asn Arg Leu Leu Asp Asn Ser Glu Thr Cys Ala Asp Gln
        195                  200                  205
Ser Val Ile Trp Lys Leu Ser Glu Asp Lys Gln Leu Ala Ile Cys Leu
    210                  215                  220
Lys Tyr Ala Gly Val His Ala Glu Asn Ala Glu Asp Tyr Glu Gly Arg
225                  230                  235                  240
Asp Val Phe Asn Thr Lys Pro Ile Ala Gln Leu Ile Glu Glu Ala Leu
                245                  250                  255
Ser Asn Asn Pro Gln Gln Val Val Glu Gly Cys Cys Ser Asp Met Ala
                260                  265                  270
Ile Thr Phe Asn Gly Leu Thr Pro Gln Lys Met Glu Val Met Met Tyr
        275                  280                  285
Gly Leu Tyr Arg Leu Arg Ala Phe Gly His Tyr Phe Asn Asp Thr Leu
    290                  295                  300
Val Phe Leu Pro Pro Val Gly Ser Glu Asn Asp  *
305                  310                  315
```

```
        <210> 1473
        <211> 65
        <212> PRT
        <213> Homo sapiens


        <400> 1473
Met Gln Cys Pro Pro Pro Phe Leu Gly Gln Trp Leu Leu Cys Pro Ala
1               5                  10                  15
Ala Arg Gln Trp Gly Pro Gly Ala Gly Ser Pro Gly Pro Val Leu Val
                20                  25                  30
Pro Ala Gly Arg Arg Arg Pro Pro Arg Ser Gly Pro Gln Arg Asp
            35                  40                  45
Ser Pro Ala Pro Val Arg Gly Pro Gln Phe His Ser Val Val Gly Pro
    50                  55                  60                  64
 *
```

```
        <210> 1474
        <211> 55
        <212> PRT
        <213> Homo sapiens


        <400> 1474
Met Ile Phe Met Arg Val Leu Met Leu Leu Cys Cys Met Asp Ser Leu
1               5                  10                  15
Gly Ser Leu Asp Thr Phe Gln Trp Leu Ser Arg Val Leu Cys Pro Thr
            20                  25                  30
```

839

```
Glu Asn Leu Ile Phe Glu Leu Asn Gly Tyr Glu Leu Asn Ser Thr Trp
        35                  40                  45
Phe Gly Trp Leu Asn Thr  *
    50              54
```

```
<210> 1475
<211> 128
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(128)
<223> Xaa = any amino acid or nothing


<400> 1475
Met Lys Phe Gln Leu Phe Leu Ser Tyr Val Phe Ile Thr Gln Val Phe
1               5                   10                  15
Ser Arg Pro Phe Gln Ser Asn Leu Gly Ser Leu Thr Pro Ala Ser Ser
            20                  25                  30
Gln Ile Pro Leu Gln Leu Pro Lys Ala Leu Cys Val Arg Cys Leu Asn
        35                  40                  45
Thr Val Xaa Xaa Xaa Xaa Xaa Thr Gly Phe Gly Lys Phe Gln Ile Thr
    50                  55                  60
Ile Gln Ser Pro Gly Gly Pro Leu Val Leu Ala Arg Pro Trp Ala Ser
65                  70                  75                  80
Lys Phe Pro Ser Pro Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Met
                85                  90                  95
Gly Gly Lys Thr Phe Ala Tyr Gly Arg Ile Asn Pro Thr Arg Pro Ala
            100                 105                 110
Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Ala Ser Leu Asn Pro Thr
        115                 120                 125     128
```

```
<210> 1476
<211> 210
<212> PRT
<213> Homo sapiens


<400> 1476
Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
1               5                   10                  15
Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
            20                  25                  30
Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
        35                  40                  45
Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
    50                  55                  60
Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
65                  70                  75                  80
Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
                85                  90                  95
His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
```

```
                    100                     105                     110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
        115                     120                     125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
    130                     135                     140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
145                     150                     155                     160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
                165                     170                     175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
                180                     185                     190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
            195                     200                     205
His  *
209
```

```
    <210> 1477
    <211> 57
    <212> PRT
    <213> Homo sapiens


    <400> 1477
Met His Thr Cys Gln Ile Tyr Ile Tyr Ser Thr Asn Val Thr Phe Leu
 1               5                   10                      15
Phe Phe Val Leu Asp Val Arg Ala Cys Ser Tyr Val Arg Tyr Leu His
                20                  25                  30
Lys Leu Leu His Tyr Phe Phe Leu Cys Asn Thr Phe Leu Phe Val Tyr
            35                  40                      45
Val Val Gln Ile Tyr Phe Phe Pro  *
    50                  55  56
```

```
    <210> 1478
    <211> 97
    <212> PRT
    <213> Homo sapiens


    <400> 1478
Met Arg Ile Trp Ser Arg Ala Val Gly Asp Gly Pro Ala Ala Val Cys
 1               5                   10                      15
Cys Pro Leu Arg Ser Trp Cys Leu Leu Leu Trp Ala Leu Asp Ser Leu
                20                  25                  30
Asp Pro Ala Ala Val Thr Thr His Ala Ser Ala Met Leu Ser Gly Val
            35                  40                  45
Phe Thr Pro Pro Phe Val Ser Ala Leu Pro Val Gln Trp Met Gln Met
        50                  55                  60
Pro Val Leu Ser Phe Leu Ser Leu Thr Gly Ser Ser Val Tyr Val His
65                  70                  75                      80
Met Ala Leu Leu Ser Gly His Gln Gly Ser Asp Thr Cys Ser Gly Leu
                85              .           90                  95  96
 *
```

```
<210> 1479
<211> 113
<212> PRT
<213> Homo sapiens


<400> 1479
Met Leu Ser Ile Ser Tyr Phe Ser Asn Ser Leu Met Leu Arg Leu Val
1               5                   10                  15
Pro Leu Ala Ala Tyr Val Leu Ser Tyr Leu Ile Cys Ser Val Leu Leu
            20                  25                  30
His Ile Asn Gln Thr Thr Val Thr Thr Tyr Arg Gly Arg Lys Gln Arg
            35                  40                  45
Lys Lys Ile Gln Phe Ala Thr Gly Asn His Gln Ser Ala Gln Ser Tyr
        50                  55                  60
Ser Glu Leu Leu Ser Leu Ser Leu Ser Phe Ser Ser Leu Leu Ser Pro
65                  70                  75                  80
Val Phe Ser Leu Pro Ser Trp Ser Leu Pro Ser Leu Pro Pro Phe Phe
                85                  90                  95
Ser His Ser Pro His Gln Lys Gly Ile Met Met Val Pro Arg Ser Val
            100                 105                 110     112
    *
```

```
<210> 1480
<211> 91
<212> PRT
<213> Homo sapiens


<400> 1480
Met Arg Leu Ser Val Cys Leu Leu Leu Leu Thr Leu Ala Leu Cys Cys
1               5                   10                  15
Tyr Arg Ala Asn Ala Val Val Cys Gln Ala Leu Gly Ser Glu Ile Thr
            20                  25                  30
Gly Phe Leu Leu Ala Gly Lys Pro Val Phe Lys Phe Gln Leu Ala Lys
        35                  40                  45
Phe Lys Ala Pro Leu Glu Ala Val Ala Ala Lys Met Glu Val Lys Lys
        50                  55                  60
Cys Val Asp Thr Met Ala Tyr Glu Lys Arg Val Leu Ile Thr Lys Thr
65                  70                  75                  80
Leu Gly Lys Ile Ala Glu Lys Cys Asp Arg    *
                85                  90
```

```
<210> 1481
<211> 54
<212> PRT
<213> Homo sapiens


<400> 1481
Met Pro Gly Ser Ile Leu Ser Asn Leu His Val Leu Leu Lys Tyr Leu
1               5                   10                  15
Phe Thr Phe Ala Glu Val Phe Leu Val Pro Gly Pro Phe Asn Val Leu
```

```
                    20                      25                      30
Phe Leu Ser Leu Arg Leu Glu Thr Leu Thr Phe Phe Val Leu Trp Leu
            35                      40                      45
Val Pro Tyr Leu Ile  *
    50              53
```

```
        <210> 1482
        <211> 56
        <212> PRT
        <213> Homo sapiens


        <400> 1482
Met Glu Arg Trp Leu Gly Leu Ile Gln Thr Leu Trp Leu Pro Ala His
1               5                       10                      15
Ser Gly Pro Leu Gly Arg Ala Trp Val Val Pro Arg Ala Thr Ser Gly
            20                      25                      30
His Tyr Trp Gly Gly Lys Gly Thr Asn Glu Gly Gly Gln Asp Lys Gly
            35                      40                      45
His Phe Pro Leu Pro Pro Arg  *
    50                  55


        <210> 1483
        <211> 202
        <212> PRT
        <213> Homo sapiens


        <400> 1483
Met Leu Leu Leu Leu Gly Leu Cys Leu Gly Leu Ser Leu Cys Val Gly
1               5                       10                      15
Ser Gln Glu Glu Ala Gln Ser Trp Gly His Ser Ser Glu Gln Asp Gly
            20                      25                      30
Leu Arg Val Pro Arg Gln Val Arg Leu Leu Gln Arg Leu Lys Thr Lys
            35                      40                      45
Pro Leu Met Thr Glu Phe Ser Val Lys Ser Thr Ile Ile Ser Arg Tyr
    50                  55                      60
Ala Phe Thr Thr Val Ser Cys Arg Met Leu Asn Arg Ala Ser Glu Asp
65                  70                      75                  80
Gln Asp Ile Glu Phe Gln Met Gln Ile Pro Ala Ala Ala Phe Ile Thr
                85                      90                      95
Asn Phe Thr Met Leu Ile Gly Asp Lys Val Tyr Gln Gly Glu Ile Thr
            100                     105                     110
Glu Arg Glu Lys Lys Ser Gly Asp Arg Val Lys Glu Lys Arg Asn Lys
            115                     120                     125
Thr Thr Glu Glu Asn Gly Glu Lys Gly Thr Glu Ile Phe Arg Ala Ser
    130                     135                     140
Ala Val Ile Pro Ser Lys Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu
145                     150                     155                 160
Glu Leu Leu Gln Arg Arg Leu Gly Lys Tyr Glu His Ser Ile Ser Val
                165                     170                     175
Arg Pro Gln Gln Leu Ser Gly Arg Leu Ser Val Asp Val Asn Ile Leu
                180                     185                     190
Glu Ser Ala Gly Ile Ala Ser Leu Glu Val
                195                     200     202
```

```
<210> 1484
<211> 477
<212> PRT
<213> Homo sapiens


<400> 1484
Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
1               5                   10                  15
Phe Pro Trp Leu Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
            20                  25                  30
Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
        35                  40                  45
Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
    50                  55                  60
Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
65                  70                  75                  80
Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
                85                  90                  95
Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
            100                 105                 110
Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
            115                 120                 125
Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
    130                 135                 140
Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
145                 150                 155                 160
Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
                165                 170                 175
Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
            180                 185                 190
Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
    195                 200                 205
His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
    210                 215                 220
Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
225                 230                 235                 240
Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
                245                 250                 255
Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
            260                 265                 270
Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
    275                 280                 285
Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
    290                 295                 300
Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
305                 310                 315                 320
Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
                325                 330                 335
Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
            340                 345                 350
Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
            355                 360                 365
Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
    370                 375                 380
Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu
```

```
385                      390                      395                      400
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
                405                      410                      415
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
                420                      425                      430
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
                435                      440                      445
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
    450                      455                      460
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln  *
465                      470                      475 476
```

```
        <210> 1485
        <211> 67
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1485
Met Ala Cys Cys Leu Phe Leu Asn Gly Ser Trp Leu Ser Met Ala Leu
  1                 5                      10                      15
Lys Phe Phe Asn Cys Trp Gly Lys Lys Ile Lys Arg Ile Ile Phe Tyr
                20                      25                      30
Val Lys Ile Met Lys Phe Lys Phe Gln Cys Pro Gln Ile Asn Thr Ala
            35                      40                      45
Thr Tyr Ile His Leu His Gly Cys Phe Cys Thr Ser Met Ala Glu Leu
    50                      55                      60
Ser Ser  *
 65  66
```

```
        <210> 1486
        <211> 93
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1486
Met Gly Ser Ser Val Leu Ser Ile Trp Ile Leu Ser Pro Ser Ile Tyr
  1                 5                      10                      15
Pro Ile Leu Ser Pro Leu Ala Met Pro Cys Leu Ser Arg Thr Asp Leu
                20                      25                      30
Ile Arg Val Arg Arg Ile Gln Gly Ala Trp Pro Ser Glu Gly Thr Ala
            35                      40                      45
Ser Ser Ile Arg Gly Trp Val Leu Thr Lys Leu Arg Met Ser Ser Gly
    50                      55                      60
Lys Ala Leu Glu Ala Leu Tyr Cys Ile Pro Gly Ala Ala Gln His Pro
 65                      70                      75                      80
Gly Leu Gly Val Thr Arg Val Trp Ser Gly Arg Thr  *
                85                      90      92
```

```
        <210> 1487
        <211> 88
        <212> PRT
```

845

<213> Homo sapiens

<400> 1487
Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe Leu Ala Gly Phe Pro
1   5   10   15
Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn Ser Pro Phe Tyr Tyr
            20   25   30
Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile Cys Ala Gly Val Leu
        35   40   45
Cys Ala Met Gly Ile Ile Ile Val Met Ser Ala Lys Cys Lys Cys Lys
    50   55   60
Phe Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile
65   70   75   80
Thr Pro Gly Ser Ala Gln Ser   *
            85   87

<210> 1488
<211> 268
<212> PRT
<213> Homo sapiens

<400> 1488
Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe Leu Phe Leu Phe
1   5   10   15
Asn Leu Ile Phe Phe Ile Leu Gly Ala Val Ile Leu Gly Phe Gly Val
            20   25   30
Trp Ile Leu Ala Asp Lys Ser Ser Phe Ile Ser Val Leu Gln Thr Ser
        35   40   45
Ser Ser Ser Leu Arg Met Gly Ala Tyr Val Phe Ile Gly Val Gly Ala
    50   55   60
Val Thr Met Leu Met Gly Phe Leu Gly Cys Ile Gly Ala Val Asn Glu
65   70   75   80
Val Arg Cys Leu Leu Gly Leu Tyr Phe Ala Phe Leu Leu Leu Ile Leu
            85   90   95
Ile Ala Gln Val Thr Ala Gly Ala Leu Phe Tyr Phe Asn Met Gly Lys
            100   105   110
Leu Lys Gln Glu Met Gly Gly Ile Val Thr Glu Leu Ile Arg Asp Tyr
            115   120   125
Asn Ser Ser Arg Glu Asp Ser Leu Gln Asp Ala Trp Asp Tyr Val Gln
            130   135   140
Ala Gln Val Lys Cys Cys Gly Trp Val Ser Phe Tyr Asn Trp Thr Asp
145   150   155   160
Asn Ala Glu Leu Met Asn Arg Pro Glu Val Thr Tyr Pro Cys Ser Cys
                165   170   175
Glu Val Lys Gly Glu Glu Asp Asn Ser Leu Ser Val Arg Lys Gly Phe
            180   185   190
Cys Glu Ala Pro Gly Asn Arg Thr Gln Ser Gly Asn His Pro Glu Asp
            195   200   205
Trp Pro Val Tyr Gln Glu Gly Cys Met Glu Lys Val Gln Ala Trp Leu
            210   215   220
Gln Glu Asn Leu Gly Ile Ile Leu Gly Val Gly Val Gly Val Ala Ile
225   230   235   240
Ile Glu Leu Leu Gly Met Val Leu Ser Ile Cys Leu Cys Arg His Val
                245   250   255
His Ser Glu Asp Tyr Ser Lys Val Pro Lys Tyr   *

```
                 260                    265        267


        <210> 1489
        <211> 832
        <212> PRT
        <213> Homo sapiens


        <400> 1489
Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp
  1               5                  10                  15
Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln
                20                  25                  30
Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro
            35                  40                  45
Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Ala Asp Pro Lys Glu
        50                  55                  60
Leu Ile Lys Met Val Thr Arg His Val Thr Arg His Glu His Glu Ala
 65                  70                  75                  80
Trp Pro Glu Asp Leu Ile Ser Leu Thr Lys Gln Leu His Cys Tyr Asn
                85                  90                  95
Glu Arg Leu Leu Asp Phe Thr Gln Ala Gln Ile Leu Gln Gly Leu Arg
                100                 105                 110
Lys Gly Val Asp Val Gln Arg Phe Thr Ala Asp Asp Gln Tyr Lys Arg
            115                 120                 125
Glu Thr Ile Leu Gly Leu Ala Glu Thr Leu Glu Glu Ser Val Tyr Ser
    130                 135                 140
Ile Ala Ile Ser Leu Ala Gln Arg Tyr Ser Val Ser Arg Trp Glu Val
145                 150                 155                 160
Phe Met Thr His Leu Glu Phe Leu Phe Thr Asp Ser Gly Leu Ser Thr
                165                 170                 175
Leu Glu Ile Glu Asn Arg Ala Gln Asp Leu His Leu Phe Glu Thr Leu
            180                 185                 190
Lys Thr Asp Pro Glu Ala Phe His Gln His Met Val Lys Tyr Ile Tyr
        195                 200                 205
Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu Gln Tyr Tyr Phe Thr
    210                 215                 220
Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile Lys
225                 230                 235                 240
Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala Ser
                245                 250                 255
Gly Leu Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu
                260                 265                 270
Ala Leu Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys
            275                 280                 285
Leu Val Pro Lys Ile Pro Glu Lys Asp Gly Gln Met Leu Ser Pro Ser
    290                 295                 300
Ser Leu Tyr Thr Ile Trp Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro
305                 310                 315                 320
His Leu Ile Lys Gln Val Pro Gly Ser Ser Pro Glu Trp Leu His Ala
                325                 330                 335
Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg Leu His Pro Gly Asp Leu
                340                 345                 350
Ile Thr Val Val Asp Ala Val Thr Phe Ser Pro Lys Ala Val Thr Lys
            355                 360                 365
Leu Ser Val Glu Ala Arg Lys Glu Met Thr Arg Lys Ala Ile Lys Thr
    370                 375                 380
```

847

```
Val Lys His Phe Ile Glu Lys Pro Arg Lys Arg Asn Ser Glu Asp Glu
385                 390             395             400
Ala Gln Glu Ala Lys Asp Ser Lys Val Thr Tyr Ala Asp Thr Leu Asn
                405             410             415
His Leu Glu Lys Ser Leu Ala His Leu Glu Thr Leu Ser His Ser Phe
            420             425             430
Ile Leu Ser Leu Lys Asn Ser Glu Gln Glu Thr Leu Gln Lys Tyr Ser
            435             440             445
His Leu Tyr Asp Leu Ser Arg Ser Glu Lys Glu Lys Leu His Asp Glu
        450             455             460
Ala Val Ala Ile Cys Leu Asp Gly Gln Pro Leu Ala Met Ile Gln Gln
465             470             475             480
Leu Leu Glu Val Ala Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile
                485             490             495
Val Gln Ser Ala Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser
            500             505             510
Ala Asp Leu Gly Gly Pro Arg Asp Pro Leu Lys Val Leu Glu Gly Val
            515             520             525
Val Ala Ala Val His Ala Ser Val Asp Lys Gly Glu Glu Leu Val Ser
        530             535             540
Pro Glu Asp Leu Leu Glu Trp Leu Arg Pro Phe Cys Ala Asp Asp Ala
545             550             555             560
Trp Pro Val Arg Pro Arg Ile His Val Leu Gln Ile Leu Gly Gln Ser
                565             570             575
Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu Val Phe Phe Arg Thr
            580             585             590
Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val Asp Ile Ala
            595             600             605
Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe Met Glu Leu Leu
        610             615             620
Glu Ser Ser His His Glu Ala Glu Phe Gln His Leu Val Leu Leu Leu
625             630             635             640
Gln Ala Trp Pro Pro Met Lys Ser Glu Tyr Val Ile Thr Asn Asn Pro
            645             650             655
Trp Val Arg Leu Ala Thr Val Met Leu Thr Arg Cys Thr Met Glu Asn
            660             665             670
Lys Glu Gly Leu Gly Asn Glu Val Leu Lys Met Cys Arg Ser Leu Tyr
        675             680             685
Asn Thr Lys Gln Met Leu Pro Ala Glu Gly Val Lys Glu Leu Cys Leu
    690             695             700
Leu Leu Leu Asn Gln Ser Leu Leu Leu Pro Ser Leu Lys Leu Leu Leu
705             710             715             720
Glu Ser Arg Asp Glu His Leu His Glu Met Ala Leu Glu Gln Ile Thr
            725             730             735
Ala Val Thr Thr Val Asn Asp Ser Asn Cys Asp Gln Glu Leu Leu Ser
            740             745             750
Leu Leu Leu Asp Ala Lys Leu Leu Val Lys Cys Val Ser Thr Pro Phe
            755             760             765
Tyr Pro Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg
    770             775             780
Trp Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu
785             790             795             800
Ala Glu Ala Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln Ala
            805             810             815
Phe Arg Thr Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp Val *
    820             825             830 831
```

```
<210> 1490
<211> 55
<212> PRT
<213> Homo sapiens


<400> 1490
Met Trp Phe Leu Leu Val Ser Val Val Cys Leu Tyr Gly Ile Gly Glu
1               5                   10                  15
Gly Asn Phe Phe Ser Leu Ala Ser Val Phe Ser Leu Leu Ser Leu Cys
            20                  25                  30
Leu His Leu Leu Leu Trp Lys Arg Ala Phe Asp Arg Thr Asp Val Leu
        35                  40                  45
Thr Ser Glu Trp Ile Phe  *
    50                  54



<210> 1491
<211> 134
<212> PRT
<213> Homo sapiens


<400> 1491
Met Thr Thr Thr Phe Pro Pro Arg Lys Met Val Ala Gln Phe Leu Leu
1               5                   10                  15
Val Ala Gly Asn Val Ala Asn Ile Thr Thr Val Ser Leu Trp Glu Glu
            20                  25                  30
Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser Gln
        35                  40                  45
Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro Ser
    50                  55                  60
Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His Ile
65                  70                  75                  80
Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser His
                85                  90                  95
Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys Leu
            100                 105                 110
Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly Val
        115                 120                 125
Pro Pro Gly Pro Leu Tyr
    130                 134



<210> 1492
<211> 71
<212> PRT
<213> Homo sapiens


<400> 1492
Met Arg Ser Glu Trp Phe Tyr Lys Trp Phe Phe Pro Pro Phe Ala Leu
1               5                   10                  15
His Phe Ser Leu Leu Pro Pro Cys Glu Glu Gly His Val Cys Leu Pro
            20                  25                  30
Met Cys His Glu Cys Lys Phe Pro Glu Ala Ser Pro Ala Thr Met Asn
        35                  40                  45
```

```
Cys Glu Ser Ile Lys Pro Leu Phe Leu Ile Asn Tyr Pro Val Ser Asn
    50              55                  60
Lys Ser Leu Leu Ala Thr  *
65              70
```

```
<210> 1493
<211> 78
<212> PRT
<213> Homo sapiens
```

```
<400> 1493
Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
1               5               10                  15
Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
            20              25                  30
Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
        35              40                  45
Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
    50              55                  60
His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala  *
65              70                  75      77
```

```
<210> 1494
<211> 121
<212> PRT
<213> Homo sapiens
```

```
<400> 1494
Met Ala Gly Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu
1               5               10                  15
Leu Leu Gly Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile
            20              25                  30
Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr
        35              40                  45
Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His
    50              55                  60
Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe
65              70                  75                  80
Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn
            85              90                  95
Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln
            100             105                 110
Pro Ser Thr Ser Leu Leu Pro Thr Leu
        115             120 121
```

```
<210> 1495
<211> 91
<212> PRT
<213> Homo sapiens
```

```
    <400> 1495
Met Glu Asn Cys Val Gly Glu Arg Thr His Pro Leu Phe Val Val Tyr
1               5                   10                  15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Trp
            20                  25                  30
Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser Ser
            35                  40                  45
Gly Leu Leu Phe Ala Thr Phe Gln Leu Leu Ser Leu Phe Ser Leu Val
        50                  55                  60
Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn Thr
65                  70                  75                  80
Thr Thr Trp Glu Phe Ile Ser Ser His His Val
                85                  90  91
```

```
    <210> 1496
    <211> 72
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1496
Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
1               5                   10                  15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
            20                  25                  30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
            35                  40                  45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
        50                  55                  60
Gln Gly Lys Gly Thr Pro Asp  *
65                  70  71
```

```
    <210> 1497
    <211> 196
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1497
Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val
1               5                   10                  15
Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
            20                  25                  30
Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
            35                  40                  45
Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
        50                  55                  60
Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Cys His Leu
65                  70                  75                  80
Leu Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp Ile
                85                  90                  95
Glu Glu Glu Lys Val Glu Lys Ile Glu Leu Asn Asp Ser Val Asn Glu
            100                 105                 110
Asn Ser Asp Thr Val Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu
            115                 120                 125
```

```
Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr
    130                     135             140
Asp Pro Glu Ser Pro Val Thr Pro Ser Thr Pro Gly Glu Pro Ala Ser
145                 150                 155                 160
Glu Ser Trp Ala Phe Val Thr Arg Gly Asp Ala Arg Glu Ala Arg Leu
                165             170             175
Trp Pro Ser Ser Ala Tyr Gly Gly Arg Cys Cys Arg Glu Gly Cys Val
            180             185             190
Ser Ser Val  *
        195
```

```
        <210> 1498
        <211> 75
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1498
Met Trp Ser Gln Ile Ala Phe Val Arg Ile Pro Phe Cys Phe Ser Leu
  1               5               10              15
Leu Ser His Ser Asn Ala Trp Phe Val Gln Lys Ala Ala Ser Gln Arg
            20              25                      30
Gln Ala Ser Ile Ser Thr Ala Cys His Cys Pro Ala Glu Ala Gly Gly
            35              40                      45
Glu Arg Ile Thr Val Ser Thr Thr Gly Ala Gln Arg Asn Ala Ala Met
        50              55                      60
Val Pro Asp Leu Gln Ser Pro Arg Arg Ser  *
 65                 70              74
```

```
        <210> 1499
        <211> 62
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1499
Met Pro Ser Leu Met Met Val Leu Glu Ala Arg Phe Val Ser Ser Cys
  1               5               10              15
Leu Ile Phe Pro Ser Arg Ala Met Pro Leu Leu Ser Arg Leu Leu Ala
            20              25                      30
Ser Lys Gly Ser Ser Val Asn Val Leu Val Lys Val Leu Phe Gly Gly
            35              40                      45
Thr Phe Ser Cys Ala Ser Ser Ile Ala Thr Gly Leu Thr  *
        50              55                      60  61
```

```
        <210> 1500
        <211> 138
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1500
Met Pro Ile Trp Lys Pro Phe Met Ala Trp Met Ala Ala Trp Ala Leu
```

```
    1                   5                   10                  15
Ala Val Leu Ser Lys Leu Thr Lys Pro Ile His Leu Leu Trp Met Val
                20                      25                  30
Ala Arg Ser Ile Asn Thr Leu Glu Glu Met Ile Leu Pro Lys Gly Thr
            35                      40                  45
Asn Ile Cys Val Ser Ser Val Ser Pro Asn Ser Phe Ser Leu Leu Leu
    50                      55                  60
Leu Gln Glu Gly Arg Arg Leu Glu Asp Ala Val Arg Asp Gly Arg Asp
65                      70                  75                  80
Gly Arg Gly Gly Ala His Gly Cys Val Leu Leu Asp Ser Gly Glu Gly
                85                      90                  95
Arg Met Gln Cys Leu Gly His Ser Arg Ala Leu Ser Trp Val Trp His
            100                     105                 110
Lys Ala Ile Gly Ile Asp Glu Phe Pro Gly Gln Gly Ala His Leu Glu
        115                     120                 125
Arg Ala Arg His Leu Pro Ser His Trp  *
130                     135     137
```

```
    <210> 1501
    <211> 82
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1501
Met Ile Leu Phe Thr Arg Ala Trp Phe Glu Leu Val Thr Leu Val Gln
1                   5                   10                  15
Phe Ile Ile Gly Ser Gln Met Leu Tyr Pro Tyr Leu His Ile Glu Glu
                20                      25                  30
Phe Val Ile Arg Lys Leu Pro Val Leu Leu Tyr Arg Lys Ser Val Ile
            35                      40                  45
Arg Tyr Gln Met Ala Ser Ser Pro Cys Leu Gln Met Phe Lys Gln Tyr
    50                      55                  60
Cys Gly Trp Ser Arg Lys Ser Leu Arg His Ala Val Lys Cys Arg Ala
65                      70                  75                  80
Arg  *
81
```

```
    <210> 1502
    <211> 54
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1502
Met Leu Leu Phe Leu Gly Phe Phe Ile Cys Ser Leu Phe Phe Ser Glu
1                   5                   10                  15
Leu Ser Thr Gly Thr Thr His Ser Leu Glu Ser Tyr Gln Ile Leu Leu
                20                      25                  30
Ser Lys Phe Phe Arg His Pro Leu Cys Thr Arg Thr Phe Arg Ile Leu
            35                      40                  45
Pro Pro Phe His Phe  *
    50          53
```

```
<210> 1503
<211> 62
<212> PRT
<213> Homo sapiens


<400> 1503
Met Gly Trp Pro Pro Ser Leu Trp Val Leu Ala Leu Ala Tyr Cys Cys
1               5                   10                  15
Lys Ala Pro Gln Arg Leu Cys Ser Gly Ser Ser Pro Cys Arg Phe Ser
            20                  25                  30
Ser Arg Met Ser Ala Ser Pro Ala Thr Asn Arg Asn Glu Asn Thr Thr
        35                  40                  45
Ser Trp Ile Ala Ser Leu His Lys Tyr Val Ile Ser Gln  *
    50                  55                  60  61



<210> 1504
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1504
Met Trp Lys Gln Ile Ser Pro Ile Gly Asn Leu Val Thr Ala Ile Phe
1               5                   10                  15
Phe Cys Val Leu Cys Gln Gln Arg Tyr Gln Trp Leu Ala Arg Asp Ala
            20                  25                  30
Phe Asn Thr Gln Ser Ile Leu Ser Pro Pro Ile Trp Val  *
        35                  40                  45



<210> 1505
<211> 48
<212> PRT
<213> Homo sapiens


<400> 1505
Met Val Ala Val Ser Leu Leu Cys Pro Trp Pro Ser Ser Trp Asn Arg
1               5                   10                  15
Arg Ser Cys Gly Arg Ser His Arg Asn Leu Gly Leu Phe Thr Ala Phe
            20                  25                  30
Leu Ser Val Pro Glu Phe Val Ile Phe Gly Ala Cys Arg Tyr Trp  *
        35                  40                  45  47



<210> 1506
<211> 190
<212> PRT
<213> Homo sapiens


<400> 1506
Met Trp Leu Leu Gly Pro Leu Cys Leu Leu Leu Ser Ser Ala Ala Glu
```

```
     1                 5                    10                    15
   Ser Gln Leu Leu Pro Gly Asn Asn Phe Thr Asn Glu Cys Asn Ile Pro
            20                       25                       30
   Gly Asn Phe Val Cys Ser Asn Gly Arg Cys Ile Pro Gly Ala Trp Gln
            35                       40                       45
   Cys Asp Gly Leu Pro Asp Cys Phe Asp Lys Ser Asp Glu Lys Glu Cys
       50                       55                       60
   Pro Lys Ala Lys Ser Lys Cys Gly Pro Thr Phe Phe Pro Cys Ala Ser
   65                       70                       75                       80
   Gly Ile His Cys Ile Ile Gly Arg Phe Arg Cys Asn Gly Phe Glu Asp
                     85                       90                       95
   Cys Pro Asp Gly Ser Asp Glu Glu Asn Cys Thr Ala Asn Pro Leu Leu
                100                      105                      110
   Cys Ser Thr Ala Arg Tyr His Cys Lys Asn Gly Leu Cys Ile Asp Lys
                115                      120                      125
   Ser Phe Ile Cys Asp Gly Gln Asn Asn Cys Gln Asp Asn Ser Asp Glu
       130                      135                      140
   Glu Ser Cys Glu Ser Ser Gln Val Phe Arg Pro Gln Val Ser Glu Trp
   145                      150                      155                      160
   Gln Ala Arg Pro Arg Asp Leu Cys Ala Arg Trp Asn Ile Pro Phe Leu
                165                      170                      175
   Gly Arg Leu Glu Arg Pro Trp Ser Phe Thr Ser Ser Gln Gln
                180                       185                      190
```

```
       <210> 1507
       <211> 60
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1507
   Met Tyr Arg Pro Ala Pro Pro Arg Gln Asn Arg Gln Leu His Pro Tyr
   1                 5                    10                    15
   Leu Leu Ala Ser Trp Pro Lys Ala Leu Asn Cys Thr Leu Cys Val Cys
                20                       25                       30
   Val Cys Val Cys Ala Arg Val Cys Ala Cys Val Cys Met Trp Ser Val
                35                       40                       45
   Thr Ser Leu Trp Leu Thr Cys Leu Ser Gly Val *
       50                       55                       59
```

```
       <210> 1508
       <211> 48
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1508
   Met Ser His His Cys Ala Trp Pro Lys Asn Phe Leu Leu Lys Met Leu
   1                 5                    10                    15
   Ser Thr Gly Arg Val Gln Trp Leu Met Pro Ile Ile Phe Leu Phe Phe
                20                       25                       30
   Gln Lys Met Gly Gly Asn Met Val Gly Ser Gln Leu Lys Leu Ser *
                35                       40                       45    47
```

```
<210> 1509
<211> 85
<212> PRT
<213> Homo sapiens


<400> 1509
Met Thr Gly Ser Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro
1               5                   10                  15
Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu Leu Leu Leu Leu Leu
                20                  25                  30
Val Leu Ala Ala Gly Val Val Phe Trp Tyr Lys Arg Arg Val Gln Gly
            35                  40                  45
Ala Lys Gly Phe His His Gln Arg Met Thr Asn Gly Ala Met Asn Val
        50                  55                  60
Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp
65                  70                  75                  80
Asp Val Gly Gly Leu
                85
```

```
<210> 1510
<211> 55
<212> PRT
<213> Homo sapiens


<400> 1510
Met Ala Ile Ser Trp Lys Pro Thr Gly Leu Pro Trp His Ser Met Leu
1               5                   10                  15
Gln Val Leu Leu Ala Ala Trp Leu Pro Gly Pro Thr Pro Thr Pro His
                20                  25                  30
Ser Ala Leu Pro Ser Phe Ser Pro Pro Pro Ser Leu Pro Pro Lys Met
            35                  40                  45
Cys Leu Pro Lys Cys Cys  *
        50                  54
```

```
<210> 1511
<211> 108
<212> PRT
<213> Homo sapiens


<400> 1511
Met Val Gly Phe Gly Ala Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
1               5                   10                  15
Val Leu Gly Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
                20                  25                  30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Gln Glu Glu Val Ala Glu
            35                  40                  45
Leu Gln Gly Gln Val Gln Arg Thr Glu Val Ala Arg Gly Arg Leu Glu
        50                  55                  60
Lys Arg Asn Ser Asp Leu Phe Ala Val Val Gly His Ala Gln Glu Thr
65                  70                  75                  80
Asp Arg Pro Glu Gly Gly Arg Leu Arg Pro Pro Gln Gln Pro Ala Ala
```

```
                85                    90                      95
Gly Gln Arg Gly Pro Arg Glu Glu Met Arg Gly  *
              100                    105   107




    <210> 1512
    <211> 119
    <212> PRT
    <213> Homo sapiens


    <400> 1512
Met Val Ala Arg Val Trp Ser Leu Met Arg Phe Leu Ile Lys Gly Ser
 1               5                    10                  15
Val Ala Gly Gly Ala Val Tyr Leu Val Tyr Asp Gln Glu Leu Leu Gly
              20                    25                  30
Pro Ser Asp Lys Ser Gln Ala Ala Leu Gln Lys Ala Gly Glu Val Val
          35                    40                  45
Pro Pro Ala Met Tyr Gln Phe Ser Gln Tyr Val Cys Gln Gln Thr Gly
      50                    55                  60
Leu Gln Ile Pro Gln Leu Pro Ala Pro Pro Lys Ile Tyr Phe Pro Ile
 65               70                    75                  80
Arg Asp Ser Trp Asn Ala Gly Ile Met Thr Val Met Ser Ala Leu Ser
              85                    90                  95
Val Ala Pro Ser Lys Ala Arg Glu Tyr Ser Lys Glu Gly Trp Glu Tyr
          100                   105                 110
Val Lys Ala Arg Thr Lys  *
      115               118




    <210> 1513
    <211> 973
    <212> PRT
    <213> Homo sapiens


    <400> 1513
Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val
 1               5                    10                  15
Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu
              20                    25                  30
Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val
          35                    40                  45
Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr
      50                    55                  60
Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser
 65               70                    75                  80
Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile
              85                    90                  95
Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu
          100                   105                 110
Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe
          115                   120                 125
Phe Thr Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp
      130                   135                 140
Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro
145               150                   155                 160
```

```
Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser
              165                 170                 175
Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg
              180                 185                 190
Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu
              195                 200                 205
Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu
    210             215                 220
Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val
225             230                 235                 240
Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val
              245                 250                 255
Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile
              260                 265                 270
Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly
              275                 280                 285
Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro
    290                 295                 300
Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys
305                 310                 315                 320
Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr
              325                 330                 335
Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu
              340                 345                 350
Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly
              355                 360                 365
Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu
    370                 375                 380
Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr
385                 390                 395                 400
Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val
              405                 410                 415
Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly
              420                 425                 430
Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Gly Glu Leu Pro Cys
              435                 440                 445
Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val
    450                 455                 460
Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met
465             470                 475                 480
Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
              485                 490                 495
Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
              500                 505                 510
Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
              515                 520                 525
Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
              530                 535                 540
Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Ser Leu Phe
545             550                 555                 560
Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
              565                 570                 575
Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
              580                 585                 590
Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
              595                 600                 605
Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
    610                 615                 620
Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
```

858

```
     625                    630                    635                    640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
                    645                    650                    655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
                660                    665                    670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
            675                    680                    685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
        690                    695                    700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
705                    710                    715                    720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
                    725                    730                    735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
                740                    745                    750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
            755                    760                    765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
    770                    775                    780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
785                    790                    795                    800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
                    805                    810                    815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
                820                    825                    830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
            835                    840                    845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
        850                    855                    860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
865                    870                    875                    880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
                885                    890                    895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
                900                    905                    910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
        915                    920                    925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
    930                    935                    940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser
945                    950                    955                    960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
            965                    970   972
```


```
        <210> 1514
        <211> 77
        <212> PRT
        <213> Homo sapiens


        <400> 1514
Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val Arg Phe Trp Phe Leu
  1                 5                  10                 15
His Gln Met Val Leu Asp Leu Cys Leu Gly Gln Gly Val Pro Gln Gln
                20                 25                 30
Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe Leu Leu Phe Val Arg
            35                 40                 45
```

```
Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu Ser Gln Glu Pro Ser
    50                  55                  60
Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr Thr  *
65                  70              75  76
```

```
        <210> 1515
        <211> 148
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1515
Met Leu Gly Ser Arg Leu Met Thr Leu Thr Val Cys Ala Gly Ala Leu
 1               5                  10                  15
Ala Arg Gly Arg Gly Thr Gly Thr Cys Glu Thr Arg Gln Glu Gly Lys
                20                  25                  30
Gly Gln Asn His Ser Thr Leu Ala Trp Pro His Glu Glu Pro Gly Ala
            35                  40                  45
Ser Thr Gly Arg Asp Gly Gly Lys Leu Pro Arg Gly Gln Cys Leu Leu
    50                  55                  60
Glu Lys Gly Pro Gly Gly Ala Gly Asp Lys Val Ser Lys Ile Phe Pro
65              70                  75                      80
Ser Cys Ala Leu Ala Leu Leu Leu Ser Leu Ala Asn Pro Gly Pro Arg
                85                  90                  95
Gly Pro Arg Glu Phe His Leu Cys Trp Gly Trp Leu Asp Arg Gly Val
            100                 105                 110
Thr Gln Glu Ala Val His Val Gly Glu Lys Arg Gly Gly Leu Gly Ser
        115                 120                 125
Gly Arg Lys Gly Gly Trp Trp Pro Gly Trp Asp Pro Gly Cys Arg Asp
    130                 135                     140
Val Ile Thr  *
145     147
```

```
        <210> 1516
        <211> 274
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1516
Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
 1               5                  10                  15
Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
                20                  25                  30
Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
            35                  40                  45
Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
    50                  55                  60
Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Ser Pro Gly Leu Ala
65                  70                  75                  80
Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
                85                  90                  95
Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
            100                 105                 110
Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly
```

```
            115                   120                   125
Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
    130                   135                   140
Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
145                   150                   155                   160
Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
                165                   170                   175
Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
                180                   185                   190
Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
            195                   200                   205
Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
    210                   215                   220
Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
225                   230                   235                   240
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
                245                   250                   255
Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
                260                   265                   270
Ser *
273
```

```
    <210> 1517
    <211> 246
    <212> PRT
    <213> Homo sapiens


    <400> 1517
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
1                   5                   10                  15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
                20                  25                  30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
            35                  40                  45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
    50                  55                  60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
65                  70                  75                  80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
                85                  90                  95
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
                100                 105                 110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
            115                 120                 125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
    130                 135                 140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
145                 150                 155                 160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
                165                 170                 175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
                180                 185                 190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
            195                 200                 205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
    210                 215                 220
```

```
Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
225                 230                 235                 240
Ser Asn Ser Ile Tyr  *
                245
```

```
<210> 1518
<211> 122
<212> PRT
<213> Homo sapiens
```

```
<400> 1518
Met Arg Asn Arg Arg Thr Glu Arg Thr Cys Thr Pro Pro Leu Ala Ser
1               5                   10                  15
Pro Tyr Asn Leu Val Pro His Leu Gln Asn Leu Leu Ala Val Leu Leu
            20                  25                  30
Met Ile Leu Val Leu Thr Pro Met Val Leu Asn Pro His Lys Leu Tyr
        35                  40                  45
Gln Met Met Thr Gln Asn Ile Leu Leu Gln Lys Pro Gln Lys Asn Phe
    50                  55                  60
Ile Trp Thr Ala Leu Lys Gly Asn Leu Ser Tyr Pro Arg Asn Leu Leu
65                  70                  75                  80
Leu Gln Ser His Leu Ser Leu Leu Leu His Ser Leu Leu Leu Glu Leu
                85                  90                  95
Asn Gln Arg Val Cys Leu Leu Pro Arg Ser Leu Ile Asp Pro Gly Lys
            100                 105                 110
Arg Leu Lys Lys Lys Pro Met Glu Thr Phe
        115                 120     122
```

```
<210> 1519
<211> 249
<212> PRT
<213> Homo sapiens
```

```
<400> 1519
Met Gly Leu Ser Ile Phe Leu Leu Leu Cys Val Leu Gly Leu Ser Gln
1               5                   10                  15
Ala Ala Thr Pro Lys Ile Phe Asn Gly Thr Glu Cys Gly Arg Asn Ser
            20                  25                  30
Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg Cys Gly
        35                  40                  45
Gly Val Leu Ile Asp His Arg Trp Val Leu Thr Ala Ala His Cys Ser
    50                  55                  60
Gly Ser Arg Tyr Trp Val Arg Leu Gly Glu His Ser Leu Ser Gln Leu
65                  70                  75                  80
Asp Trp Thr Glu Gln Ile Arg His Ser Gly Phe Ser Val Thr His Pro
                85                  90                  95
Gly Tyr Leu Gly Ala Ser Thr Ser His Glu His Asp Leu Arg Leu Leu
            100                 105                 110
Arg Leu Arg Leu Pro Val Arg Val Thr Ser Ser Val Gln Pro Leu Pro
        115                 120                 125
Leu Pro Asn Asp Cys Ala Thr Ala Gly Thr Glu Cys His Val Ser Gly
    130                 135                 140
Trp Gly Ile Thr Asn His Pro Arg Asn Pro Phe Pro Asp Leu Leu Gln
```

862

```
145                     150                     155                     160
Cys Leu Asn Leu Ser Ile Val Ser His Ala Thr Cys His Gly Val Tyr
                165                     170                     175
Pro Gly Arg Ile Thr Ser Asn Met Val Cys Ala Gly Gly Val Pro Gly
            180                     185                     190
Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
        195                     200                     205
Val Leu Gln Gly Leu Val Ser Trp Gly Ser Val Gly Pro Cys Gly Gln
    210                     215                     220
Asp Gly Ile Pro Gly Val Tyr Thr Tyr Ile Cys Lys Tyr Val Asp Trp
225                     230                     235                     240
Ile Arg Met Ile Met Arg Asn Asn  *
                245                     248
```

```
<210> 1520
<211> 292
<212> PRT
<213> Homo sapiens
```

```
<400> 1520
Met Leu Val Leu Gln Ile Leu Leu Cys Ile Arg Glu Phe Ile Leu Glu
1                   5                   10                      15
Arg Ser Leu Ile Asn Val Lys Asn Val Ala Lys Ser Leu Ala Val Val
            20                      25                      30
Leu Ala Leu Leu Asn Ile Gly Lys Phe Ile Leu Glu Lys Ile Phe Thr
        35                      40                      45
Asn Ala Lys Tyr Val Leu Asn Leu Leu Leu Val Ser Gln Ile Leu Leu
    50                      55                      60
Cys Met Arg Glu Phe Ile Leu Glu Arg Asn Pro Ile Asn Val Lys Asn
65                  70                      75                      80
Val Ala Lys Pro Phe Leu Ile Val His Thr Leu Phe Asp Ile Ile Glu
            85                      90                      95
Phe Ile Leu Glu Lys Asn His Thr Asn Val Lys His Val Ala Asn Leu
            100                     105                     110
Leu Val Thr Pro Gln Val Leu Leu Cys Ile Gly Glu Leu Ile Leu Glu
    115                     120                     125
Arg Asn Pro Ile His Val Lys Asn Val Ala Lys Pro Leu Val Ile Val
    130                     135                     140
Gln Met Leu Phe Ser Ile Gly Glu Phe Ile Leu Ala Arg Asp Pro Thr
145                     150                     155                     160
Asn Val Lys Asn Val Ala Lys Pro Ser Thr Ile Gly His Thr Ser Leu
                165                     170                     175
His Ile Lys Glu Val Ile Leu Glu Arg Asp Pro Thr Asn Val Lys Asn
            180                     185                     190
Val Ala Lys Pro Ser Thr Leu Gly His Thr Ser Leu His Ile Gly Glu
        195                     200                     205
Asp Ile Leu Glu Arg Asp Pro Thr Asn Val Met Asn Val Val Lys Pro
    210                     215                     220
Ser Ala Ile Gly His Thr Ser Leu His Ile Gly Glu Val Ile Val Glu
225                     230                     235                     240
Arg Asp Pro Thr Asn Val Lys Asn Val Ala Lys Pro Leu Thr Leu Gly
                245                     250                     255
His Thr Ser Leu His Ile Arg Glu Val Ile Leu Glu Lys Asn Phe Lys
            260                     265                     270
Asn Val Lys His Gly Ala Asp Phe Leu Leu Val Thr His Val Leu Leu
        275                     280                     285
```

Cys Ile Arg *
290 291

        <210> 1521
        <211> 129
        <212> PRT
        <213> Homo sapiens

        <400> 1521
Met Gly Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1   5   10   15
Val Cys Ala Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
                20   25   30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
            35   40   45
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
        50   55   60
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
65   70   75   80
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
                85   90   95
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
            100   105   110
Tyr Tyr Cys Ala Arg His Thr Val Arg Glu Thr Ser Pro Glu Pro Val
        115   120   125   128
    *

        <210> 1522
        <211> 66
        <212> PRT
        <213> Homo sapiens

        <400> 1522
Met Val Val Val Leu Pro Cys Phe Ala Val Leu Lys Leu Leu Phe Gly
1   5   10   15
Gln Ser Lys Leu Gly Pro Met Gln Pro Ser Gln Ser Gly Leu Asp Pro
                20   25   30
Val Gly Ala Gly Met Ser Ala Ser Ile Ala Asp Gly Ser Arg Ala Thr
            35   40   45
Ala Asp Lys Ala Val Leu Leu Asp Pro Thr Ser Leu Leu Leu Glu Tyr
        50   55   60
Thr *
65

        <210> 1523
        <211> 131
        <212> PRT
        <213> Homo sapiens

<400> 1523
Met Ile Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu
1   5   10   15
Leu Leu Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu
            20   25   30
Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val
        35   40   45
Asn Pro Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val
    50   55   60
Leu Ser Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro
65   70   75   80
Gly Asp Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr
                85   90   95
Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser
                100   105   110
Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
        115   120   125
Ser Ile *
130

    <210> 1524
    <211> 52
    <212> PRT
    <213> Homo sapiens

    <400> 1524
Met Lys Phe Phe Val Phe Ala Leu Ile Leu Ala Leu Met Leu Ser Met
1   5   10   15
Thr Gly Ala Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys
            20   25   30
Phe His Glu Lys His His Ser His Arg Gly Tyr Arg Ser Asn Tyr Leu
        35   40   45
Tyr Asp Asn *
    50 51

    <210> 1525
    <211> 246
    <212> PRT
    <213> Homo sapiens

    <400> 1525
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
1   5   10   15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
            20   25   30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
        35   40   45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
    50   55   60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
65   70   75   80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
                85   90   95

```
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
            100                 105                 110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
            115                 120                 125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
            130                 135                 140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
145                 150                 155                 160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
                165                 170                 175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
            180                 185                 190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
            195                 200                 205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
            210                 215                 220
Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
225                 230                 235                 240
Ser Asn Ser Ile Tyr  *
            245
```

```
<210> 1526
<211> 47
<212> PRT
<213> Homo sapiens
```

```
<400> 1526
Met Val Leu Gly Ala Arg Ala Val Ile Ser Phe Cys Ile Leu Ser Ala
1               5                   10                  15
Met Pro Gly Tyr Met Val Val Pro Pro Glu Arg Thr Leu Leu Ala Tyr
            20                  25                  30
Lys Ser Leu Arg Met Ser Met Ser His Phe Met Met Glu Leu  *
        35                  40                  45 46
```

```
<210> 1527
<211> 118
<212> PRT
<213> Homo sapiens
```

```
<400> 1527
Met Ser Ala Arg Gly Trp Pro Cys Glu Ala Phe Val Leu Ala Gln Val
1               5                   10                  15
Cys Trp Cys Trp Leu Cys Val Arg Gly Arg Leu Cys Glu Ala Leu Thr
            20                  25                  30
Leu Ala Gln Val Arg Arg His Gln Val Cys Val Pro Gly Gln Pro Cys
        35                  40                  45
Glu Ala Leu Thr Leu Thr Gln Val Arg Arg His Gln Leu Cys Val Trp
    50                  55                  60
Gly Arg Pro Cys Glu Ala Leu Thr Leu Ala Gln Val Cys Trp Leu Trp
65                  70                  75                  80
Leu Cys Val Gln Gly Trp Pro His Glu Ala Leu Thr Leu Ala Gln Val
                85                  90                  95
Arg Gln His Gln Val Cys Val Arg Gly Arg Pro Cys Glu Ala Leu Ser
```

```
                   100                 105                110
Leu Ala Gln Val Arg  *
            115    117
```

```
        <210> 1528
        <211> 92
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1528
Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
1               5               10                  15
Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
            20              25                  30
Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
        35              40              45
Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
    50              55              60
Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
65              70              75              80
Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser  *
                85                  90 91
```

```
        <210> 1529
        <211> 71
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1529
Met Tyr Cys Trp Trp Cys Trp Leu Cys Thr Ala Met Val Cys Ser Gly
1               5               10                  15
Val Leu Cys Arg Pro Leu Trp Glu Pro Leu Ser Pro Arg Leu Ser Val
            20              25                  30
Phe Trp Ala Gly Arg Tyr Leu Gly Phe Trp Cys Met Gly Cys Cys Arg
        35              40                  45
Met Ala Met Tyr Cys Val Ser Ser Cys Ser Arg Phe Ser Gly Glu Ser
    50              55                  60
Gly Phe Arg Arg Ile Pro  *
65                  70
```

```
        <210> 1530
        <211> 85
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1530
Met Val Leu Arg Val Cys Phe Leu Ile Phe Val Leu Tyr His Asn Leu
1               5               10                  15
Gly Lys Tyr Ile Phe Ile Ile Tyr Val Tyr Arg Cys Lys Asp Arg Phe
            20              25                  30
```

```
Thr Lys Gly Cys Ile Thr Val Val Gln Gln Ser Gly Ile Leu Thr Glu
        35                      40                      45
Leu Lys Gly Gln Gly Ser Phe Leu Tyr Val Leu Leu Cys Leu Asp Ile
    50                      55                      60
Thr Leu Leu Val Arg Ser Val Phe Lys Asn Asp Asn Ser Arg Phe Asp
65                      70                      75                      80
Phe Gln Ala Asn  *
                84
```

```
        <210> 1531
        <211> 60
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1531
Met Leu Pro Gln Val Phe Leu Gly Phe Thr Lys Val Arg Leu Leu Arg
 1           /       5                  10                      15
Leu Arg Asn Pro Trp Gly Cys Val Glu Trp Thr Gly Ala Trp Ser Asp
            20                      25                      30
Arg Trp Asp Gly Ser Gly Val Gly Val Gly Leu Asp Pro Thr Cys Pro
        35                      40                      45
Pro Leu Thr Pro Gln Ser Leu Gln Leu Pro Thr Leu
    50                      55                      60
```

```
        <210> 1532
        <211> 53
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1532
Met Leu Gly Leu His Gln Leu Cys Ser Leu Leu Val Gln Leu Asp Phe
 1                   5                  10                      15
Tyr Leu Gln Tyr Leu Tyr Gly Gln Phe Gln Gln Phe Ser Met Cys Leu
            20                      25                      30
Asp Leu Asn His Val His Phe Leu Met Phe Pro Ser Leu Val Cys Ala
            35                      40                      45
Met Phe Arg Phe  *
    50      52
```

```
        <210> 1533
        <211> 741
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1533
Met Ala Glu Ser Arg Gly Arg Leu Tyr Leu Trp Met Cys Leu Ala Ala
 1               5                  10                      15
Ala Leu Ala Ser Phe Leu Met Gly Phe Met Val Gly Trp Phe Ile Lys
            20                      25                      30
Pro Leu Lys Glu Thr Thr Thr Ser Val Arg Tyr His Gln Ser Ile Arg
```

```
            35                      40                      45
Trp Lys Leu Val Ser Glu Met Lys Ala Glu Asn Ile Lys Ser Phe Leu
    50                      55                      60
Arg Ser Phe Thr Lys Leu Pro His Leu Ala Gly Thr Glu Gln Asn Phe
65                      70                      75                  80
Leu Leu Ala Lys Lys Ile Gln Thr Gln Trp Lys Lys Phe Gly Leu Asp
                85                      90                      95
Ser Ala Lys Leu Val His Tyr Asp Val Leu Leu Ser Tyr Pro Asn Glu
            100                     105                     110
Thr Asn Ala Asn Tyr Ile Ser Ile Val Asp Glu His Glu Thr Glu Ile
            115                     120                     125
Phe Lys Thr Ser Tyr Leu Glu Pro Pro Pro Asp Gly Tyr Glu Asn Val
    130                     135                     140
Thr Asn Ile Val Pro Pro Tyr Asn Ala Phe Ser Ala Gln Gly Met Pro
145                     150                     155                 160
Glu Gly Asp Leu Val Tyr Val Asn Tyr Ala Arg Thr Glu Asp Phe Phe
                165                     170                     175
Lys Leu Glu Arg Glu Met Gly Ile Asn Cys Thr Gly Lys Ile Val Ile
            180                     185                     190
Ala Arg Tyr Gly Lys Ile Phe Arg Gly Asn Lys Val Lys Asn Ala Met
            195                     200                     205
Leu Ala Gly Ala Ile Gly Ile Ile Leu Tyr Ser Asp Pro Ala Asp Tyr
    210                     215                     220
Phe Ala Pro Glu Val Gln Pro Tyr Pro Lys Gly Trp Asn Leu Pro Gly
225                     230                     235                 240
Thr Ala Ala Gln Arg Gly Asn Val Leu Asn Leu Asn Gly Ala Gly Asp
                245                     250                     255
Pro Leu Thr Pro Gly Tyr Pro Ala Lys Glu Tyr Thr Phe Arg Leu Asp
                260                     265                     270
Val Glu Glu Gly Val Gly Ile Pro Arg Ile Pro Val His Pro Ile Gly
                275                     280                     285
Tyr Asn Asp Ala Glu Ile Leu Leu Arg Tyr Leu Gly Gly Ile Ala Pro
    290                     295                     300
Pro Asp Lys Ser Trp Lys Gly Ala Leu Asn Val Ser Tyr Ser Ile Gly
305                     310                     315                 320
Pro Gly Phe Thr Gly Ser Asp Ser Phe Arg Lys Val Arg Met His Val
                325                     330                     335
Tyr Asn Ile Asn Lys Ile Thr Arg Ile Tyr Asn Val Val Gly Thr Ile
            340                     345                     350
Arg Gly Ser Val Glu Pro Asp Arg Tyr Val Ile Leu Gly Gly His Arg
            355                     360                     365
Asp Ser Trp Val Phe Gly Ala Ile Asp Pro Thr Ser Gly Val Ala Val
    370                     375                     380
Leu Gln Glu Ile Ala Arg Ser Phe Gly Lys Leu Met Ser Lys Gly Trp
385                     390                     395                 400
Arg Pro Arg Arg Thr Ile Ile Phe Ala Ser Trp Asp Ala Glu Glu Phe
                405                     410                     415
Gly Leu Leu Gly Ser Thr Glu Trp Ala Glu Glu Asn Val Lys Ile Leu
            420                     425                     430
Gln Glu Arg Ser Ile Ala Tyr Ile Asn Ser Asp Ser Ser Ile Glu Gly
            435                     440                     445
Asn Tyr Thr Leu Arg Val Asp Cys Thr Pro Leu Leu Tyr Gln Leu Val
    450                     455                     460
Tyr Lys Leu Thr Lys Glu Ile Pro Ser Pro Asp Asp Gly Phe Glu Ser
465                     470                     475                 480
Lys Phe Leu Tyr Glu Ser Trp Val Glu Lys Asp Pro Ser Pro Glu Asn
                485                     490                     495
Lys Asn Leu Pro Arg Ile Asn Lys Leu Gly Ser Gly Ser Asp Phe Glu
            500                     505                     510
```

```
Ala Tyr Phe Gln Arg Leu Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr
        515             520             525
Lys Asn Lys Lys Thr Asp Lys Tyr Ser Ser Tyr Pro Val Tyr His Thr
        530             535             540
Ile Tyr Glu Thr Phe Glu Leu Val Glu Lys Phe Tyr Asp Pro Thr Phe
545             550             555             560
Lys Lys Gln Leu Ser Val Ala Gln Leu Arg Gly Ala Leu Val Tyr Glu
                565             570             575
Leu Val Asp Ser Lys Ile Ile Pro Phe Asn Ile Gln Asp Tyr Ala Glu
            580             585             590
Ala Leu Lys Asn Tyr Ala Ala Ser Ile Tyr Asn Leu Ser Lys Lys His
        595             600             605
Asp Gln Gln Leu Thr Asp His Gly Val Ser Phe Asp Ser Leu Phe Ser
    610             615             620
Ala Val Lys Asn Phe Ser Glu Ala Ala Ser Asp Phe His Lys Arg Leu
625             630             635             640
Ile Gln Val Asp Leu Asn Asn Pro Ile Ala Val Arg Met Met Asn Asp
                645             650             655
Gln Leu Met Leu Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro
            660             665             670
Gly Lys Leu Phe Tyr Arg His Ile Ile Phe Ala Pro Ser Ser His Asn
        675             680             685
Lys Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Ile Phe Asp
    690             695             700
Ile Glu Asn Lys Ala Asn Ser Arg Leu Ala Trp Lys Glu Val Lys Lys
705             710             715             720
His Ile Ser Ile Ala Ala Phe Thr Ile Gln Ala Ala Ala Gly Thr Leu
                725             730             735
Lys Glu Val Leu  *
            740
```

```
        <210> 1534
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1534
Met Leu Ile Leu Leu His Ile Leu Lys Asn Ile Lys Leu Tyr Leu Val
1               5               10              15
Asn Met Leu Lys Thr Lys Leu Cys Phe Tyr Lys Asp Arg Gly Ser Pro
            20              25              30
Glu Glu Gly Ile Asp Lys Glu Glu Met Lys Leu Gly Gly Arg Lys Trp
            35              40              45
Thr  *
49
```

```
        <210> 1535
        <211> 973
        <212> PRT
        <213> Homo sapiens


        <400> 1535
Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val
```

```
     1                    5                   10                      15
   Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu
                    20                   25                   30
   Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val
                35                   40                   45
   Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr
                50                   55                   60
   Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser
   65                   70                   75                   80
   Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile
                    85                   90                   95
   Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu
                   100                  105                  110
   Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe
                   115                  120                  125
   Phe Thr Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp
                130                  135                  140
   Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro
   145                  150                  155                  160
   Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser
                   165                  170                  175
   Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg
                   180                  185                  190
   Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu
                   195                  200                  205
   Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu
                210                  215                  220
   Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val
   225                  230                  235                  240
   Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val
                   245                  250                  255
   Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile
                   260                  265                  270
   Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly
                   275                  280                  285
   Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro
                290                  295                  300
   Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys
   305                  310                  315                  320
   Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr
                   325                  330                  335
   Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu
                   340                  345                  350
   Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly
                355                  360                  365
   Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu
                370                  375                  380
   Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr
   385                  390                  395                  400
   Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val
                   405                  410                  415
   Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly
                   420                  425                  430
   Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Arg Gly Glu Leu Pro Cys
                435                  440                  445
   Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val
                450                  455                  460
   Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met
   465                  470                  475                  480
```

871

```
Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
            485                 490                 495
Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
            500                 505                 510
Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
            515                 520                 525
Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
            530                 535                 540
Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu Phe
545                 550                 555                 560
Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
            565                 570                 575
Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
            580                 585                 590
Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
            595                 600                 605
Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
            610                 615                 620
Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
625                 630                 635                 640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
            645                 650                 655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
            660                 665                 670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
            675                 680                 685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
            690                 695                 700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
705                 710                 715                 720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
            725                 730                 735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
            740                 745                 750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
            755                 760                 765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
            770                 775                 780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
785                 790                 795                 800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
            805                 810                 815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
            820                 825                 830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
            835                 840                 845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
            850                 855                 860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
865                 870                 875                 880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
            885                 890                 895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
            900                 905                 910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
            915                 920                 925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
            930                 935                 940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser
```

```
945                    950                    955                    960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp  *
                     965                    970     972
```

```
    <210> 1536
    <211> 75
    <212> PRT
    <213> Homo sapiens


    <400> 1536
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1               5              10                  15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
               20              25                  30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
           35              40              45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
       50              55              60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu  *
65                  70              74
```

```
    <210> 1537
    <211> 96
    <212> PRT
    <213> Homo sapiens


    <400> 1537
Met Asp Leu Gly Arg Val Phe Ile Thr Leu Ile Leu Asn Leu Leu Arg
 1               5              10                  15
Glu Thr Ile Phe Lys Arg Asp Gln Ser Pro Glu Pro Lys Val Pro Glu
               20              25                  30
Gln Ser Val Lys Glu Asp Arg Lys Leu Cys Glu Arg Pro Leu Ala Ser
           35              40              45
Ser Pro Pro Arg Leu Tyr Glu Asp Asp Glu Thr Pro Gly Ala Leu Ser
       50              55              60
Gly Leu Thr Asn Met Ala Val Ile Gln Ile Asp Gly His Met Ser Gly
65                  70              75                  80
Gln Met Val Lys His Leu Met Asn Ser Met Met Lys Leu Cys Val Met
               85              90                  95  96
```

```
    <210> 1538
    <211> 318
    <212> PRT
    <213> Homo sapiens


    <400> 1538
Met Val Met Arg Pro Leu Trp Ser Leu Leu Leu Trp Glu Ala Leu Leu
 1               5              10                  15
```

```
Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser
        20                    25                    30
Val Leu Leu Val Ala Ala Arg Pro Pro Gly Phe Gln Val Arg Glu Ala
        35                    40                    45
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe
    50                    55                    60
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala
65                    70                    75                    80
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly
                85                    90                    95
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro
            100                   105                   110
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro
        115                   120                   125
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys
    130                   135                   140
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile
145                   150                   155                   160
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro
                165                   170                   175
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro
            180                   185                   190
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser
        195                   200                   205
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala
    210                   215                   220
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Leu Val Val Val Pro
225                   230                   235                   240
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp
                245                   250                   255
Cys Pro Cys Ser Gly Pro His Leu Arg Ser Lys Gln Leu Trp Met Arg
            260                   265                   270
Trp Asp Leu Gln Leu Ser Leu His Lys Val Thr Leu Ser Asn Leu Ile
        275                   280                   285
Ser Thr Val Val Cys Ser Val Val His Gln Gly Leu Val Glu Gln Ile
    290                   295                   300
His Thr Ala Leu Ile Lys Phe Pro Ser Leu Met Lys Lys Lys
305                   310                   315        318
```

```
        <210> 1539
        <211> 157
        <212> PRT
        <213> Homo sapiens


        <400> 1539
Met Ile Leu Gln Val Ser Gly Gly Pro Trp Thr Val Ala Leu Thr Ala
 1                 5                    10                    15
Leu Leu Met Val Leu Leu Ile Ser Val Val Gln Ser Arg Ala Thr Pro
            20                    25                    30
Glu Asn Ser Val Tyr Gln Glu Arg Gln Glu Cys Tyr Ala Phe Asn Gly
            35                    40                    45
Thr Gln Arg Val Val Asp Gly Leu Ile Tyr Asn Arg Glu Glu Tyr Val
        50                    55                    60
His Phe Asp Ser Ala Val Gly Glu Phe Leu Ala Val Met Glu Leu Gly
65                    70                    75                    80
Arg Pro Ile Gly Glu Tyr Phe Asn Ser Gln Lys Asp Phe Met Glu Arg
```

874

```
                    85                  90                  95
Lys Arg Ala Glu Val Asp Lys Val Cys Arg His Lys Tyr Glu Leu Met
            100                 105                 110
Glu Pro Leu Ile Arg Gln Arg Arg Gly Asp Val Thr Ile Thr Ala Val
            115                 120                 125
Arg Gly Cys Trp Thr Thr Ile Leu Ser Gly Tyr Phe Leu Leu Lys Arg
            130                 135                 140
Gly Val Val Ser Gly Gly Cys Ser Trp Gly Ser Ser  *
145                      150                  155 156
```

```
        <210> 1540
        <211> 135
        <212> PRT
        <213> Homo sapiens


        <400> 1540
Met Gly Ser Ser Phe Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1               5                   10                  15
Leu Ser Ala Gly Val Leu Leu Glu Gln Ser Arg Ala Glu Val Lys Lys
            20                  25                  30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Arg Phe
        35                  40                  45
Thr Ser Ala Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu
    50                  55                  60
Glu Trp Met Gly Thr Ile Tyr Pro Ala Asp Ser Glu Val Arg Tyr Ser
65              70                  75                  80
Pro Ser Leu Gln Gly Gln Val Thr Leu Ser Val Asp Glu Ser Ile Ser
            85                  90                  95
Thr Ala Tyr Leu Gln Trp Asn Ser Leu Arg Ala Ser Asp Thr Ala Thr
            100                 105                 110
Tyr Tyr Cys Ala Arg Gln Ile Ile Gly Ala Leu Pro Thr Asp Pro Phe
        115                 120                 125
Asp Leu Leu Gly Gln Gly Thr
    130                 135
```

```
        <210> 1541
        <211> 72
        <212> PRT
        <213> Homo sapiens


        <400> 1541
Met Cys Val Thr Cys Val Val Cys Met Trp Cys Met Cys Gly Val Cys
1               5                   10                  15
Ala Met Tyr Val Ala Cys Val Met His Val Val Cys Glu Val Tyr Val
            20                  25                  30
Trp Tyr Val Cys Asp Val Cys Ala Phe Gly His Thr Gly Val Val Ile
        35                  40                  45
Ala Leu Thr Trp Thr Pro Pro Gln Arg Val Ile Arg Lys Gly Gln Val
    50                  55                  60
Leu Arg Leu Ala Cys Ser Gln  *
65                  70  71
```

<210> 1542
<211> 369
<212> PRT
<213> Homo sapiens

<400> 1542
Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala Leu Ala Leu
1   5   10   15
Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser
            20   25   30
Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr
        35   40   45
Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln
    50   55   60
Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr
65   70   75   80
Trp Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
                85   90   95
Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly
            100   105   110
Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp
            115   120   125
Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr
    130   135   140
Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala
145   150   155   160
Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
                165   170   175
Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr
            180   185   190
Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr
            195   200   205
His Met Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys
    210   215   220
Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg
225   230   235   240
Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro
                245   250   255
Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser
            260   265   270
Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro
            275   280   285
Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro
    290   295   300
Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr
305   310   315   320
Gly Ala Val Val Ala Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg
                325   330   335
Lys Gly Val Lys Asp Arg Lys Gly Gly Ser Tyr Ser Gln Ala Ala Ser
            340   345   350
Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
        355   360   365   368
    *

<210> 1543
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1543
Met Arg Ser Leu Trp Lys Ala Asn Arg Ala Asp Leu Leu Ile Trp Leu
1   5   10   15
Val Thr Phe Thr Ala Thr Ile Leu Leu Asn Leu Asp Leu Gly Leu Glu
            20   25   30
Asp Ala Val Ile Phe Ser Leu Leu Leu Glu Glu Val Arg Thr Gln Met
        35   40   45   48
    *

<210> 1544
<211> 121
<212> PRT
<213> Homo sapiens

<400> 1544
Met Lys Ile Phe Lys Cys Tyr Phe Lys His Thr Leu Gln Gln Lys Val
1   5   10   15
Phe Ile Leu Phe Leu Thr Leu Trp Leu Leu Ser Leu Leu Lys Leu Leu
            20   25   30
Asn Val Arg Arg Leu Phe Pro Gln Lys Asp Ile Tyr Leu Val Glu Tyr
        35   40   45
Ser Leu Ser Thr Ser Pro Phe Val Arg Asn Arg Tyr Thr His Val Lys
    50   55   60
Asp Glu Val Arg Tyr Glu Val Asn Cys Ser Gly Ile Tyr Glu Gln Glu
65   70   75   80
Pro Leu Glu Ile Gly Lys Ser Leu Glu Ile Arg Arg Arg Asp Ile Ile
            85   90   95
Asp Leu Glu Asp Asp Asp Val Val Ala Met Thr Ser Asp Cys Asp Ile
            100   105   110
Tyr Gln Thr Leu Lys Gly Tyr Ala *
        115   120

<210> 1545
<211> 70
<212> PRT
<213> Homo sapiens

<400> 1545
Met Phe Leu Leu Lys Trp Pro Leu Trp Val Leu Gln Tyr Val Val Cys
1   5   10   15
Ser Leu Lys Asp Lys Ile His Lys Phe Phe Tyr Ile Glu Arg Val Val
            20   25   30
Gly Glu Leu Arg Val Leu Pro Gln Gly Trp Met Val Ala Leu Ile Leu
        35   40   45
Arg Lys Asp Phe Val Leu Pro Ser Pro Ser Asp Val Val Asn Ala Ser
    50   55   60

```
Gln Pro Gly Gln Val  *
65                69
```

```
      <210> 1546
      <211> 58
      <212> PRT
      <213> Homo sapiens
```

```
      <400> 1546
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1               5                10                15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
            20                25                30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
        35                40                45
Cys Cys Val Val Met Ser Pro Leu Pro  *
    50                55      57
```

```
      <210> 1547
      <211> 65
      <212> PRT
      <213> Homo sapiens
```

```
      <400> 1547
Met Trp Leu His Glu Asn Leu Gln Phe Leu Leu Gln Leu Ile Phe His
1               5                10                15
Phe Tyr Trp Thr Val Pro Pro Trp Arg Asp Trp Cys Lys Val Ile Gln
            20                25                30
Gln Ala Arg Asp Arg Pro Gly Pro Asn Pro Leu Leu Pro Leu Arg Met
        35                40                45
Gly Ala Trp His Leu Pro Gly His Asp Gly Leu Gly Arg Val Cys Thr
    50                55                60                64
 *
```

```
      <210> 1548
      <211> 78
      <212> PRT
      <213> Homo sapiens
```

```
      <400> 1548
Met Phe Ile Ile Phe Leu Ala Phe Ile Ala Leu Lys Arg Ser Lys Ser
1               5                10                15
Val Ile Gly Ala Phe Leu Tyr Leu Ala Ser Ile Phe Leu Ala His Gly
            20                25                30
Val Ala Ala His Ile Val Phe Met Ser Ala Phe Tyr Gln Ala Cys Arg
        35                40                45
Thr Tyr Leu Trp Trp Ala Leu Cys Glu Asn Leu Arg Met Lys Ser Val
    50                55                60
Ser Cys Met Leu Leu Lys Gly Met Ala Cys Leu Leu Thr  *
```

65   70   75   77


```
<210> 1549
<211> 54
<212> PRT
<213> Homo sapiens


<400> 1549
Met Leu Tyr Ile Glu Cys Lys Ser His Lys Leu Val Ala Pro Leu Ala
1               5                   10                  15
Val Phe Phe Ala Leu Phe Phe Leu Leu Ile Phe Phe Trp Val Ala Phe
            20                  25                  30
Ser Tyr Pro Phe Glu Leu Leu Phe Leu Gln Leu Arg Ser Arg Gln Ala
        35                  40                  45
Asp Ile Gly Val Gln  *
    50          53




<210> 1550
<211> 70
<212> PRT
<213> Homo sapiens



<400> 1550
Met Val Asn Thr Trp Leu Ala Ala Cys Cys Thr Val Val Thr Trp Phe
1               5                   10                  15
Pro Lys Met Ser Met Leu Pro Leu Pro Pro Ser Lys Pro Ser Ala Arg
            20                  25                  30
Ser Ser Leu Trp Ile Gly Ala Pro Leu Ala Ser Arg Leu Ala Ser Thr
        35                  40                  45
Thr Ser Leu Pro Leu Trp Cys Leu Val Glu Thr Trp Pro Arg Tyr Arg
    50                  55                  60
Glu Leu Cys Ala Cys  *
65              69




<210> 1551
<211> 224
<212> PRT
<213> Homo sapiens



<400> 1551
Met Arg Gln Ile Asn Lys Lys Gly Phe Trp Ser Tyr Gly Pro Val Ile
1               5                   10                  15
Leu Val Val Leu Val Val Ala Val Val Ala Ser Ser Val Asn Ser Tyr
            20                  25                  30
Tyr Ser Ser Pro Ala Gln Gln Val Pro Lys Asn Pro Ala Leu Glu Ala
        35                  40                  45
Phe Leu Ala Gln Phe Ser Gln Leu Glu Asp Lys Phe Pro Gly Gln Ser
    50                  55                  60
Ser Phe Leu Trp Gln Arg Gly Arg Lys Phe Leu Gln Lys His Leu Asn
65                  70                  75                  80
```

879

```
Ala Ser Asn Pro Thr Glu Pro Ala Thr Ile Ile Phe Thr Ala Ala Arg
                85                      90                      95
Glu Gly Arg Glu Thr Leu Lys Cys Leu Ser His His Val Ala Asp Ala
            100                 105                 110
Tyr Thr Ser Ser Gln Lys Val Ser Pro Ile Gln Ile Asp Gly Ala Gly
            115                 120                 125
Arg Thr Trp Gln Asp Ser Asp Thr Val Lys Leu Leu Val Asp Leu Glu
    130                 135                 140
Leu Ser Tyr Gly Phe Glu Asn Gly Gln Lys Ala Ala Val Val His His
145                 150                 155                 160
Phe Glu Ser Phe Pro Ala Gly Ser Thr Leu Ile Phe Tyr Lys Tyr Cys
                165                 170                 175
Asp His Glu Asn Ala Ala Phe Lys Asp Val Ala Leu Val Leu Thr Val
            180                 185                 190
Leu Leu Glu Glu Glu Thr Leu Glu Ala Ser Val Gly Pro Arg Glu Thr
            195                 200                 205
Glu Glu Lys Val Arg Asp Leu Leu Trp Ala Lys Phe Thr Asn Ser  *
    210                 215                 220                 223
```

```
<210> 1552
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<400> 1552
Met Arg Gln Lys Phe Leu Lys Pro Leu Leu Ile Leu Leu His Arg Leu
1               5                   10                  15
Lys Leu Gly Ser Leu Tyr Thr Pro Ser Ser Val Ala Arg Tyr Asp Ser
            20                  25                  30
Ser Val Asn Glu Asn Arg Ser Val Asn Ser Ser Ala Tyr Glu Glu Ala
            35                  40                  45
Lys Glu Leu Met Leu Ser Met Asn  *
    50                  55  56
```

```
<210> 1553
<211> 241
<212> PRT
<213> Homo sapiens
```

```
<400> 1553
Met Ser Cys Val Leu Gly Gly Val Ile Pro Leu Gly Leu Leu Phe Leu
1               5                   10                  15
Val Cys Gly Ser Gln Gly Tyr Leu Leu Pro Asn Val Thr Leu Leu Glu
            20                  25                  30
Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg
            35                  40                  45
Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn
    50                  55                  60
Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met
65                  70                  75                  80
Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln
                85                  90                  95
Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln
```

```
             100                    105                    110
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val
         115                    120                    125
Gln Ser Trp Tyr Asp Glu Val Lys Asp Tyr Thr Tyr Pro Tyr Pro Ser
         130                    135                    140
Glu Cys Asn Pro Trp Cys Pro Glu Arg Cys Ser Gly Pro Met Cys Thr
145                      150         .             155             160
His Tyr Thr Gln Ile Val Trp Ala Thr Thr Asn Lys Ile Gly Cys Ala
                 165                    170                    175
Val Asn Thr Cys Arg Lys Met Thr Val Trp Gly Glu Val Trp Glu Asn
             180                    185                    190
Ala Val Tyr Phe Val Cys Asn Tyr Ser Pro Lys Gly Asn Trp Ile Gly
             195                    200                    205
Glu Ala Pro Tyr Lys Asn Gly Arg Pro Cys Ser Glu Cys Pro Pro Ser
         210                    215                    220
Tyr Gly Gly Ser Cys Arg Asn Asn Leu Cys Tyr Arg Glu Glu Thr Tyr
225                      230                    235                    240
Thr
241
```

```
        <210> 1554
        <211> 56
        <212> PRT
        <213> Homo sapiens


        <400> 1554
Met Leu Thr Ser Ser Gly Cys Glu Lys His Leu Ser Leu Ala Ser Val
1               5                    10                    15
Ser Ser Leu Ser Leu Phe Cys Val Cys Cys Ser Ser Cys Gln Leu Leu
                 20                    25                    30
Trp Glu Asn Glu Cys Glu Arg Gly Ser Gln Arg Gly Trp Pro Pro Gln
             35              .     40                    45
Cys Lys Trp Gly Ser Ala Val  *
         50                    55
```

```
        <210> 1555
        <211> 64
        <212> PRT
        <213> Homo sapiens


        <400> 1555
Met Tyr Gly Trp Thr Met Thr Ser Thr Ile Ser Cys Val Phe Trp Ala
1               5                    10                    15
Cys Pro Gln Arg Lys Lys Gly Leu Cys Lys Arg Glu Gly Val Gly Ser
                 20                    25                    30
Ser Ile Leu Ile His Ser Leu Ala Ala Phe Val Met Phe Asp Cys Asn
             35                    40                    45
Leu Pro Leu Leu Val Arg Arg Val Arg Arg Ile His Tyr Pro Ala  *
 ·   50                    55                    60         63
```

```
        <210> 1556
```

```
<211> 71
<212> PRT
<213> Homo sapiens


<400> 1556
Met Ser Arg Pro Met Met Thr Ser Ala Ser Trp Thr Ser Val Trp Ser
1               5                   10                  15
Val Phe Val Met Ile Tyr Leu Tyr Phe Glu Arg Lys Tyr Val Leu Pro
            20                  25                  30
Leu Leu Gly Val Val Phe Tyr Thr Ile Ile Ser Asn Asp Ala Phe Ala
        35                  40                  45
Leu Glu Ser Leu Leu Ser Gly Ile Ser Thr Ser Ala Phe Phe Cys Lys
    50                  55                  60
Glu Leu Met Cys Ile Leu  *
 65                  70



<210> 1557
<211> 126
<212> PRT
<213> Homo sapiens


<400> 1557
Met Gln Thr His Leu Gly Ala Ser Cys Leu Ser Leu Val Ile Arg Ile
1               5                   10                  15
Ala Leu Leu Phe Leu Val Gln Arg Asp Gly His Leu His Ser Arg Arg
            20                  25                  30
Glu Ile Tyr Ala Ile Phe Thr Lys Gly Ser Leu Cys Pro Ala Phe Lys
        35                  40                  45
Trp Ala Arg Val Gly Arg Glu Leu Phe Leu His Leu Leu Leu Ser Asn
    50                  55                  60
Cys His Gln Leu Lys Ile Ile Leu Ile Pro Lys Cys His Ile Leu Gly
 65                  70                  75                  80
Trp His Ile Leu Ile Pro Phe Thr Ser Lys Ile Trp Asp Ser Tyr Phe
                85                  90                  95
Ile Val Gln Cys Phe Ser His Phe Thr Thr Leu Ala Asn Val Phe Met
            100                 105                 110
Glu Glu Asp Asn Pro Val Ser Glu Leu Gln Val Phe Gln  *
        115                 120                 125



<210> 1558
<211> 135
<212> PRT
<213> Homo sapiens


<400> 1558
Met Lys Gly Ser Ile Phe Thr Leu Phe Leu Phe Ser Val Leu Phe Ala
1               5                   10                  15
Ile Ser Glu Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu
            20                  25                  30
Tyr Ile Arg Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg
        35                  40                  45
His Leu Glu Gly Ile Pro Gln Ala Gln Gln Ala Glu Thr Gly Asn Ser
```

```
            50                      55                      60
Phe Gln Leu Pro His Lys Arg Glu Phe Ser Glu Glu Asn Pro Ala Gln
65                      70                      75                      80
Asn Leu Pro Lys Val Asp Ala Ser Gly Glu Asp Arg Leu Trp Gly Gly
                    85                      90                      95
Gln Met Pro Thr Glu Glu Leu Trp Lys Ser Lys Lys His Ser Val Met
                100                     105                     110
Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser Met
            115                     120                     125
Thr Asp Leu Ser Ala Leu Cys
            130                 · 135
```

```
    <210> 1559
    <211> 203
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1559
Met Glu Leu Trp Gly Ala Tyr Leu Leu Leu Cys Leu Phe Ser Leu Leu
1               5                      10                      15
Thr Gln Val Thr Thr Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val
                20                      25                      30
Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
            35                      40                      45
Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
        50                      55                      60
Gln Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys
65                      70                      75                      80
Cys Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu
                85                      90                      95
Asp Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser
                100                     105                     110
Glu Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu
            115                     120                     125
Ala Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp
            130                     135                     140
Val Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu
145                 150                     155                     160
Ile Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu
                165                     170                     175
Ser Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln
                180                     185                     190
Leu Pro Tyr Ile Cys Gln Phe Gly Ile Val *
            195                     200     202
```

```
    <210> 1560
    <211> 59
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1560
Met Met Gly Val Ser Gly Cys Met Val Leu Leu Ala Pro Leu Leu Ala
1               5                      10                      15
```

```
Arg Arg Ser Gln Ser Ser Leu Trp Lys Gln Phe Glu Lys Cys Ser Ala
            20                  25                  30
Gly Pro Lys Leu Met Leu Ser Lys Phe Leu Pro Trp Gly Lys Leu Ala
            35                  40                  45
Met Pro Ser Arg Met Ser Asn Phe Ser Pro   *
    50                  55          58
```

```
<210> 1561
<211> 50
<212> PRT
<213> Homo sapiens
```

```
<400> 1561
Met Lys Phe Ser Asn Val Leu Cys Thr Cys Leu Leu Ile Leu Gln Lys
1               5               10                  15
Val Lys Leu Phe Tyr Lys Thr Val His Glu Asn Ser Ser Phe Leu Pro
            20                  25                  30
Cys Phe Ser His Leu Ile Pro Ser Pro Gln Arg Asn Leu Ser Ser Ile
            35                  40                  45
Phe   *
49
```

```
<210> 1562
<211> 49
<212> PRT
<213> Homo sapiens
```

```
<400> 1562
Met Leu Phe Ser Ala Val Lys Leu Tyr Cys Cys Gln Phe Trp His Leu
1               5               10                  15
Ile Leu Asn Arg Val Pro Ser Pro Ser Leu Leu Tyr Ser Cys Gly Leu
            20                  25                  30
Ser Thr Asn Val Leu Asn Thr Thr Val Cys Tyr Val Arg Asp Lys Lys
            35                  40                  45          48
  *
```

```
<210> 1563
<211> 69
<212> PRT
<213> Homo sapiens
```

```
<400> 1563
Met Glu Arg Leu Arg Gly Lys Cys Leu Leu Ile Ile Ala Leu Met Thr
1               5               10                  15
Pro Leu Cys Thr Thr Thr Ile Ser Ser Ser Cys Ile Glu Gly Ser Ala
            20                  25                  30
Asn Phe Phe Cys Lys Glu Pro Gly Ser Asn Cys Val Phe Glu Ala Leu
            35                  40                  45
Trp Ala Ile Trp Ser Val Gly Gln Leu Leu Ser Ser Ser Val Val Ala
```

884

```
         50                  55                  60
His Lys Gln Pro   *
65              68




    <210> 1564
    <211> 53
    <212> PRT
    <213> Homo sapiens




    <400> 1564
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1               5                  10                  15
Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
            20                  25                  30
Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
        35                  40                  45
Gln Tyr Phe Pro   *
    50      52




    <210> 1565
    <211> 236
    <212> PRT
    <213> Homo sapiens




    <400> 1565
Met Pro Arg Arg Gly Leu Ile Leu His Thr Arg Thr His Trp Leu Leu
1               5                  10                  15
Leu Gly Leu Ala Leu Leu Cys Ser Leu Val Leu Phe Met Tyr Leu Leu
            20                  25                  30
Glu Cys Ala Pro Gln Thr Asp Gly Asn Ala Ser Leu Pro Gly Val Val
        35                  40                  45
Gly Glu Asn Tyr Gly Lys Glu Tyr Tyr Gln Ala Leu Leu Gln Glu Gln
    50                  55                  60
Glu Glu His Tyr Gln Thr Arg Ala Thr Ser Leu Lys Arg Gln Ile Ala
65                  70                  75                  80
Gln Leu Lys Gln Glu Leu Gln Glu Met Ser Glu Lys Met Arg Ser Leu
                85                  90                  95
Gln Glu Arg Arg Asn Val Gly Ala Asn Gly Ile Gly Tyr Gln Ser Asn
            100                 105                 110
Lys Glu Gln Ala Pro Ser Asp Leu Leu Glu Phe Leu His Ser Gln Ile
            115                 120                 125
Asp Lys Ala Glu Val Ser Ile Gly Ala Lys Leu Pro Ser Glu Tyr Gly
    130                 135                 140
Val Ile Pro Phe Glu Ser Phe Thr Leu Met Lys Val Phe Gln Leu Glu
145                 150                 155                 160
Met Gly Leu Thr Arg His Pro Glu Glu Lys Pro Val Arg Lys Asp Lys
                165                 170                 175
Arg Asp Glu Leu Val Glu Val Ile Glu Ala Gly Leu Glu Val Ile Asn
            180                 185                 190
Asn Pro Asp Glu Asp Asp Glu Gln Glu Asp Glu Glu Gly Pro Leu Gly
            195                 200                 205
Glu Lys Leu Ile Phe Asn Glu Asn Asp Phe Val Glu Gly Tyr Tyr Arg
    210                 215                 220
```

```
Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe
225             230             235 236
```

```
        <210> 1566
        <211> 77
        <212> PRT
        <213> Homo sapiens


        <400> 1566
Met Thr Ala Gly Ile Met Pro Leu Gly Leu Cys Pro Cys Ser Cys Leu
1               5               10              15
Cys Leu His Ser Arg Thr Gly Ala Phe Ser Ala Val His Trp Ser Pro
            20              25              30
Val Glu Gly Thr Pro Asp Pro Ser Leu Arg Glu Val Ile Ser Lys Gly
        35              40              45
Cys Phe Ile Thr Val Phe Pro Gln Asn Asp Pro Ile Asp Thr Val Phe
        50              55              60
Ser Gln Cys Pro Leu Thr Phe Glu His Ile Arg Glu  *
65              70                  75  76
```

```
        <210> 1567
        <211> 104
        <212> PRT
        <213> Homo sapiens


        <400> 1567
Met Leu Ile Gly Leu Leu Ala Trp Leu Gln Thr Val Pro Ala His Gly
1               5               10              15
Cys Gln Phe Leu Pro Ile Thr Ser Val Thr Ala Thr Val Tyr His Leu
            20              25              30
Pro Val His Gln Leu Lys Gly Arg Ser Arg Val Gln Lys Asn Leu Thr
        35              40              45
Leu Asp Asn Glu Gly Glu Gly Thr Trp Thr Thr Cys Leu Glu Phe Leu
        50              55              60
Glu Ser Leu Ala Gly Trp Arg Leu Gly Trp Gly Val Ser Arg Gly Val
65              70              75              80
Arg Glu Trp Leu Cys Leu Gln Gln Val Ser Leu His Gln Thr Pro Gly
            85              90              95
Leu Pro His Lys Gln Asp Leu  *
        100         103
```

```
        <210> 1568
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1568
Met Val Val Asn Thr Met Ile Tyr Phe Phe Ile Phe Thr Tyr Thr Leu
1               5               10              15
Ala Lys Arg Ala Arg Val His Ile Asn Lys Asn Gly Asn Lys Ala Leu
```

```
                    20                    25                    30
Ala Glu Lys Asn Met His Leu Thr Asn His Val Asn Ser  *
              35                    40                    45
```

```
        <210> 1569
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1569
Met Leu Met Met Asp Thr Leu Trp Pro Ile Leu Leu Gln Thr Leu Lys
  1               5                    10                    15
Val Ile Ser Gln Val Gly His Ala Gly Pro Leu Ala Asn Met Ile His
              20                    25                    30
Asp Asn Pro Cys Ile Ile Ala Tyr Arg Ile Thr Leu Arg Leu Val Gly
              35                    40                    45
Pro  *
 49
```

```
        <210> 1570
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1570
Met Val Gly Phe Asp Leu Leu Pro Leu Leu Phe Phe Pro Phe Phe Phe
  1               5                    10                    15
Pro Ser Leu Ile Phe Phe Pro Phe Phe Ser Ser Pro Ser Pro Ser Phe
              20                    25                    30
Gln Phe Leu Pro His Gln Glu Lys Ser Gln His Val Phe Pro Pro Asn
              35                    40                    45
Ala  *
 49
```

```
        <210> 1571
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1571
Met Tyr Leu Trp Val Val Arg Trp Lys Trp Cys Leu Gln Lys Leu Gly
  1               5                    10                    15
Arg Arg Ile Leu Leu His Ser Leu His Asp Val Phe Ile Ala Asn Met
              20                    25                    30
Asp Asp Lys Gly Leu Cys Tyr Arg Gly Leu Arg Ala Pro Ser Phe Leu
              35                    40                    45
Leu  *
 49
```

```
<210> 1572
<211> 80
<212> PRT
<213> Homo sapiens


<400> 1572
Met Ser Ser Gly Arg Asn Phe Gly Phe Cys Phe Gln Trp Leu Pro Trp
1               5                   10                  15
Ala Leu Val Ala Thr Trp Ala Ser Val Thr Val Leu Met Ser Ser His
            20                  25                  30
Ser Ser Ser Val Gly Ser Gly Leu Cys Pro Met Asp Phe Cys Ser Ser
        35                  40                  45
Ser Arg Arg Leu Phe Ser Arg Phe Ser Ser Ile Ser Phe Leu Leu Ala
    50                  55                  60
Ser Leu Leu Leu Ser Ser Ser Thr Lys Ser Val Ala Met Pro Thr   *
65                  70                  75              79
```

```
<210> 1573
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1573
Met Ile Asp Ile Val Arg Phe Ala Gly Leu Pro Ser Leu Leu Leu His
1               5                   10                  15
Ala Leu Cys Leu Ile Ser Leu Thr Tyr Pro Ser Ser Phe Arg His Ser
            20                  25                  30
Ser Tyr Leu Ile Ser Pro Cys Ala Ser Phe Trp Ile Leu Tyr Leu Phe
        35                  40                  45
Arg Pro Val   *
    50  51
```

```
<210> 1574
<211> 200
<212> PRT
<213> Homo sapiens


<400> 1574
Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Leu Gly Ala Trp Ala
1               5                   10                  15
Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
            20                  25                  30
Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
        35                  40                  45
Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
    50                  55                  60
Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
65                  70                  75              80
Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
                85                  90                  95
Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val
```

```
                     100                        105                      110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
            115                        120                      125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
            130                        135                      140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
145                            150                      155                    160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
                        165                      170                      175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
                   180                      185                      190
Val Leu Asp Ser Thr Leu Leu  *
            195                      199
```

```
    <210> 1575
    <211> 51
    <212> PRT
    <213> Homo sapiens

    <221> misc_feature
    <222> (1)...(51)
    <223> Xaa = any amino acid or nothing


    <400> 1575
Met Leu Leu Gly Phe Gly Asn Val Phe Ile Leu Leu Ile Leu Xaa Thr
1                   5                       10                      15
Ala Ile Leu Trp Leu Lys Gly Ser Gln Arg Val Pro Glu Glu Pro Gly
                   20                      25                      30
Glu Gln Pro Ile Tyr Met Asn Phe Ser Glu Pro Leu Thr Lys Asp Met
                   35                      40                      45
Ala Thr  *
    50
```

```
    <210> 1576
    <211> 124
    <212> PRT
    <213> Homo sapiens


    <400> 1576
Met Arg Ile Arg Leu Leu Cys Cys Val Ala Phe Ser Leu Leu Trp Ala
1                   5                       10                      15
Gly Pro Val Ile Ala Gly Ile Thr Gln Ala Pro Thr Ser Gln Ile Leu
                   20                      25                      30
Ala Ala Gly Arg Arg Met Thr Leu Arg Cys Thr Gln Asp Met Arg His
            35                      40                      45
Asn Ala Met Tyr Trp Tyr Arg Gln Asp Leu Gly Leu Gly Leu Arg Leu
    50                      55                      60
Ile His Tyr Ser Asn Thr Ala Gly Thr Thr Gly Lys Gly Glu Val Pro
65                      70                      75                      80
Asp Gly Tyr Ser Val Ser Arg Ala Asn Thr Asp Asp Phe Pro Leu Thr
                        85                      90                      95
Leu Ala Ser Ala Val Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
                   100                      105                      110
```

```
Ser Asp Gly Ala Ser Gly Ser Pro His Thr Gly Glu
        115                 120             124


    <210> 1577
    <211> 860
    <212> PRT
    <213> Homo sapiens


    <400> 1577
Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
1               5                   10                  15
Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
            20                  25                  30
Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
        35                  40                  45
Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
    50                  55                  60
Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
65                  70                  75                  80
Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
                85                  90                  95
Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
            100                 105                 110
Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
        115                 120                 125
Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
    130                 135                 140
Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
145                 150                 155                 160
Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
                165                 170                 175
Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
            180                 185                 190
Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
        195                 200                 205
Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
    210                 215                 220
Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
225                 230                 235                 240
Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
                245                 250                 255
Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
            260                 265                 270
Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
        275                 280                 285
Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
    290                 295                 300
Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
305                 310                 315                 320
Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
                325                 330                 335
Ser His Ala Pro Leu Thr Val Val Ser Ser Ser Gly Gln Ile Arg Val
            340                 345                 350
His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
        355                 360                 365
Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly
```

                                   890

```
          370                      375                      380
Asn Trp Gly Cys Tyr Thr Glu Gln Gln Arg Cys Asp Gly Tyr Trp His
385                      390                      395                  400
Cys Pro Asn Gly Arg Asp Glu Thr Asn Cys Thr Met Cys Gln Lys Glu
                    405                      410                  415
Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg
                420                      425                  430
Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys
            435                      440                  445
Phe Phe Cys Gln Pro Gly Asn Phe His Cys Lys Asn Asn Arg Cys Val
    ·450                      455                  460
Phe Glu Ser Trp Val Cys Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser
465                      470                      475                  480
Asp Glu Glu Asn Cys Pro Val Ile Val Pro Thr Arg Val Ile Thr Ala
                485                      490                  495
Ala Val Ile Gly Ser Leu Ile Cys Gly Leu Leu Leu Val Ile Ala Leu
                500                      505                  510
Gly Cys Thr Cys Lys Leu Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser
            515                      520                  525
Phe Glu Thr Gln Leu Ser Arg Val Glu Ala Glu Leu Leu Arg Arg Glu
            530                      535                  540
Ala Pro Pro Ser Tyr Gly Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro
545                      550                      555                  560
Val Glu Asp Phe Pro Val Cys Ser Pro Asn Gln Ala Ser Val Leu Glu
                565                      570                  575
Asn Leu Arg Leu Ala Val Arg Ser Gln Leu Gly Phe Thr Ser Val Arg
            580                      585                  590
Leu Pro Met Ala Gly Arg Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn
            595                      600                  605
Phe Ala Arg Ser Arg His Ser Gly Ser Leu Ala Leu Val Ser Ala Asp
    610                      615                  620
Gly Asp Glu Val Val Pro Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg
625                      630                      635                  640
Asn His Thr His Arg Ser Leu Phe Ser Val Glu Ser Asp Asp Thr Asp
                645                      650                  655
Thr Glu Asn Glu Arg Arg Asp Met Ala Gly Ala Ser Gly Gly Val Ala
            660                      665                  670
Ala Pro Leu Pro Gln Lys Val Pro Pro Thr Thr Ala Val Glu Ala Thr
            675                      680                  685
Val Gly Ala Cys Ala Ser Ser Ser Thr Gln Ser Thr Arg Gly Gly His
            690                      695                  700
Ala Asp Asn Gly Arg Asp Val Thr Ser Val Glu Pro Pro Ser Val Ser
705                      710                      715                  720
Pro Ala Arg His Gln Leu Thr Ser Ala Leu Ser Arg Met Thr Gln Gly
                725                      730                  735
Leu Arg Trp Val Arg Phe Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln
                740                      745                  750
Asn Gln Ser Pro Leu Arg Gln Leu Asp Asn Gly Val Ser Gly Arg Glu
            755                      760                  765
Asp Asp Asp Asp Val Glu Met Leu Ile Pro Ile Ser Asp Gly Ser Ser
            770                      775                  780
Asp Phe Asp Val Asn Asp Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser
785                      790                      795                  800
Asp Gln Gly Gln Gly Leu Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly
                805                      810                  815
Val Arg Pro Ser Asn Arg Asp Gly Pro Cys Glu Arg Cys Gly Ile Val
            820                      825                  830
His Thr Ala Gln Ile Pro Asp Thr Cys Leu Glu Val Thr Leu Lys Asn
            835                      840                  845
```

891

```
Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys    *
    850                 855             859
```

```
        <210> 1578
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1578
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1               5               10              15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
            20              25              30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
        35              40              45
Cys Cys Val Val Met Ser Pro Leu Pro    *
    50              55      57
```

```
        <210> 1579
        <211> 572
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1579
Met Arg Arg Arg Ser Arg Met Leu Leu Cys Phe Ala Phe Leu Trp Val
1               5               10              15
Leu Gly Ile Ala Tyr Tyr Met Tyr Ser Gly Gly Gly Ser Ala Leu Ala
            20              25              30
Gly Gly Ala Gly Gly Gly Ala Gly Arg Lys Glu Asp Trp Asn Glu Ile
            35              40              45
Asp Pro Ile Lys Lys Lys Asp Leu His His Ser Asn Gly Glu Glu Lys
    50              55              60
Ala Gln Ser Met Glu Thr Leu Pro Pro Gly Lys Val Arg Trp Pro Asp
65              70              75              80
Phe Asn Gln Glu Ala Tyr Val Gly Gly Thr Met Val Arg Ser Gly Gln
            85              90              95
Asp Pro Tyr Ala Arg Asn Lys Phe Asn Gln Val Glu Ser Asp Lys Leu
            100             105             110
Arg Met Asp Arg Ala Ile Pro Asp Thr Arg His Asp Gln Cys Gln Arg
        115             120             125
Lys Gln Trp Arg Val Asp Leu Pro Ala Thr Ser Val Val Ile Thr Phe
    130             135             140
His Asn Glu Ala Arg Ser Ala Leu Leu Arg Thr Val Val Ser Val Leu
145             150             155             160
Lys Lys Ser Pro Pro His Leu Ile Lys Glu Ile Ile Leu Val Asp Asp
            165             170             175
Tyr Ser Asn Asp Pro Glu Asp Gly Ala Leu Leu Gly Lys Ile Glu Lys
        180             185             190
Val Arg Val Leu Arg Asn Asp Arg Arg Glu Gly Leu Met Arg Ser Arg
    195             200             205
Val Arg Gly Ala Asp Ala Ala Gln Ala Lys Val Leu Thr Phe Leu Asp
    210             215             220
Ser His Cys Glu Cys Asn Glu His Trp Leu Glu Pro Leu Leu Glu Arg
```

```
        225                    230                    235                    240
Val Ala Glu Asp Arg Thr Arg Val Val Ser Pro Ile Ile Asp Val Ile
                245                    250                    255
Asn Met Asp Asn Phe Gln Tyr Val Gly Ala Ser Ala Asp Leu Lys Gly
                260                    265                    270
Gly Phe Asp Trp Asn Leu Val Phe Lys Trp Asp Tyr Met Thr Pro Glu
                275                    280                    285
Gln Arg Arg Ser Arg Gln Gly Asn Pro Val Ala Pro Ile Lys Thr Pro
            290                    295                    300
Met Ile Ala Gly Gly Leu Phe Val Met Asp Lys Phe Tyr Phe Glu Glu
305                    310                    315                    320
Leu Gly Lys Tyr Asp Met Met Met Asp Val Trp Gly Gly Glu Asn Leu
                325                    330                    335
Glu Ile Ser Phe Arg Val Trp Gln Cys Gly Gly Ser Leu Glu Ile Ile
                340                    345                    350
Pro Cys Ser Arg Val Gly His Val Phe Arg Lys Gln His Pro Tyr Thr
            355                    360                    365
Phe Pro Gly Gly Ser Gly Thr Val Phe Ala Arg Asn Thr Arg Arg Ala
        370                    375                    380
Ala Glu Val Trp Met Asp Glu Tyr Lys Asn Phe Tyr Tyr Ala Ala Val
385                    390                    395                    400
Pro Ser Ala Arg Asn Val Pro Tyr Gly Asn Ile Gln Ser Arg Leu Glu
                405                    410                    415
Leu Arg Lys Lys Leu Ser Cys Lys Pro Phe Lys Trp Tyr Leu Glu Asn
            420                    425                    430
Val Tyr Pro Glu Leu Arg Val Pro Asp His Gln Asp Ile Ala Phe Gly
            435                    440                    445
Ala Leu Gln Gln Gly Thr Asn Cys Leu Asp Thr Leu Gly His Phe Ala
        450                    455                    460
Asp Gly Val Val Gly Val Tyr Glu Cys His Asn Ala Gly Gly Asn Gln
465                    470                    475                    480
Glu Trp Ala Leu Thr Lys Glu Lys Ser Val Lys His Met Asp Leu Cys
                485                    490                    495
Leu Thr Val Val Asp Arg Ala Pro Gly Ser Leu Ile Lys Leu Gln Gly
            500                    505                    510
Cys Arg Glu Asn Asp Ser Arg Gln Lys Trp Glu Gln Ile Glu Gly Asn
            515                    520                    525
Ser Lys Leu Arg His Val Gly Ser Asn Leu Cys Leu Asp Ser Arg Thr
        530                    535                    540
Ala Lys Ser Gly Gly Leu Ser Val Glu Val Cys Gly Pro Ala Leu Ser
545                    550                    555                    560
Gln Gln Trp Lys Phe Thr Leu Asn Leu Gln Gln  *
            565                    570 571
```

```
    <210> 1580
    <211> 77
    <212> PRT
    <213> Homo sapiens


    <400> 1580
Met Glu Arg Pro Leu Cys Ser His Leu Cys Ser Cys Leu Ala Met Leu
1                   5                   10                  15
Ala Leu Leu Ser Pro Leu Ser Leu Ala Gln Tyr Asp Ser Trp Pro His
                20                  25                  30
Tyr Pro Glu Tyr Phe Gln Gln Pro Ala Pro Glu Tyr His Gln Pro Gln
            35                  40                  45
```

```
Ala Pro Ala Asn Val Ala Lys Ile Gln Leu Arg Leu Ala Gly Gln Lys
    50                  55                      60
Arg Lys His Ser Glu Gly Pro Gly Gly Gly Val Leu  *
65                  70                      75  76
```


```
<210> 1581
<211> 494
<212> PRT
<213> Homo sapiens


<400> 1581
Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly Met Leu
1               5                   10                  15
Val Ala Ser Cys Leu Gly Arg Leu Ser Trp Tyr Asp Pro Asp Phe Gln
            20                  25                  30
Ala Arg Leu Thr Arg Ser Asn Ser Lys Cys Gln Gly Gln Leu Glu Val
        35                  40                  45
Tyr Leu Lys Asp Gly Trp His Met Val Cys Ser Gln Ser Trp Gly Arg
    50                  55                  60
Ser Ser Lys Gln Trp Glu Asp Pro Ser Gln Ala Ser Lys Val Cys Gln
65                  70                  75                  80
Arg Leu Asn Cys Gly Val Pro Leu Ser Leu Gly Pro Phe Leu Val Thr
                85                  90                  95
Tyr Thr Pro Gln Ser Ser Ile Ile Cys Tyr Gly Gln Leu Gly Ser Phe
            100                 105                 110
Ser Asn Cys Ser His Ser Arg Asn Asp Met Cys His Ser Leu Gly Leu
        115                 120                 125
Thr Cys Leu Glu Pro Gln Lys Thr Thr Pro Pro Thr Thr Arg Pro Pro
    130                 135                 140
Pro Thr Thr Thr Pro Glu Pro Thr Ala Pro Pro Arg Leu Gln Leu Val
145                 150                 155                 160
Ala Gln Ser Gly Gly Gln His Cys Ala Gly Val Val Glu Phe Tyr Ser
                165                 170                 175
Gly Ser Leu Gly Gly Thr Ile Ser Tyr Glu Ala Gln Asp Lys Thr Gln
            180                 185                 190
Asp Leu Glu Asn Phe Leu Cys Asn Asn Leu Gln Cys Gly Ser Phe Leu
        195                 200                 205
Lys His Leu Pro Glu Thr Glu Ala Gly Arg Ala Gln Asp Pro Gly Glu
    210                 215                 220
Pro Arg Glu His Gln Pro Leu Pro Ile Gln Trp Lys Ile Gln Asn Ser
225                 230                 235                 240
Ser Cys Thr Ser Leu Glu His Cys Phe Arg Lys Ile Lys Pro Gln Lys
                245                 250                 255
Ser Gly Arg Val Leu Ala Leu Leu Cys Ser Gly Phe Gln Pro Lys Val
            260                 265                 270
Gln Ser Arg Leu Val Gly Gly Ser Ser Ile Cys Glu Gly Thr Val Glu
        275                 280                 285
Val Arg Gln Gly Ala Gln Trp Ala Ala Leu Cys Asp Ser Ser Ser Ala
    290                 295                 300
Arg Ser Ser Leu Arg Trp Glu Glu Val Cys Arg Glu Gln Gln Cys Gly
305                 310                 315                 320
Ser Val Asn Ser Tyr Arg Val Leu Asp Ala Gly Asp Pro Thr Ser Arg
                325                 330                 335
Gly Leu Phe Cys Pro His Gln Lys Leu Ser Gln Cys His Glu Leu Trp
            340                 345                 350
Glu Arg Asn Ser Tyr Cys Lys Lys Val Phe Val Thr Cys Gln Asp Pro
```

894

```
              355                      360                      365
Asn Pro Ala Gly Leu Ala Ala Gly Thr Val Ala Ser Ile Ile Leu Ala
      370                      375                      380
Leu Val Leu Leu Val Val Leu Leu Val Val Cys Gly Pro Leu Ala Tyr
385                      390                      395                      400
Lys Lys Leu Val Lys Lys Phe Arg Gln Lys Lys Gln Arg Gln Trp Ile
                  405                      410                      415
Gly Pro Thr Gly Met Asn Gln Asn Met Ser Phe His Arg Asn His Thr
              420                      425                      430
Ala Thr Val Arg Ser His Ala Glu Asn Pro Thr Ala Ser His Val Asp
          435                      440                      445
Asn Glu Tyr Ser Gln Pro Pro Arg Asn Ser Arg Leu Ser Ala Tyr Pro
      450                      455                      460
Ala Leu Glu Gly Ala Leu His Arg Ser Ser Met Gln Pro Asp Asn Ser
465                      470                      475                      480
Ser Asp Ser Asp Tyr Asp Leu His Gly Ala Gln Arg Leu   *
                  485                      490      493


          <210> 1582
          <211> 329
          <212> PRT
          <213> Homo sapiens


          <400> 1582
Met Gln Gly Leu Cys Ile Ser Val Ala Val Phe Leu His Tyr Phe Leu
 1                5                     10                      15
Leu Val Ser Phe Thr Trp Met Gly Leu Glu Ala Phe His Met Tyr Leu
              20                      25                      30
Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Lys Tyr Ile Leu Lys
          35                      40                      45
Phe Cys Ile Val Gly Trp Gly Val Pro Ala Val Val Val Thr Ile Ile
      50                      55                      60
Leu Thr Ile Ser Pro Asp Asn Tyr Gly Leu Gly Ser Tyr Gly Lys Phe
 65                      70                      75                      80
Pro Asn Gly Ser Pro Asp Asp Phe Cys Trp Ile Asn Asn Asn Ala Val
                  85                      90                      95
Phe Tyr Ile Thr Val Val Gly Tyr Phe Cys Val Ile Phe Leu Leu Asn
              100                     105                     110
Val Ser Met Phe Ile Val Val Leu Val Gln Leu Cys Arg Ile Lys Lys
          115                     120                     125
Lys Lys Gln Leu Gly Ala Gln Arg Lys Thr Ser Ile Gln Asp Leu Arg
      130                     135                     140
Ser Ile Ala Gly Leu Thr Phe Leu Leu Gly Ile Thr Trp Gly Phe Ala
145                     150                     155                     160
Phe Phe Ala Trp Gly Pro Val Asn Val Thr Phe Met Tyr Leu Phe Ala
                  165                     170                     175
Ile Phe Asn Thr Leu Gln Gly Phe Phe Ile Phe Ile Phe Tyr Cys Val
              180                     185                     190
Ala Lys Glu Asn Val Arg Lys Gln Trp Arg Arg Tyr Leu Cys Cys Gly
          195                     200                     205
Lys Leu Arg Leu Ala Glu Asn Ser Asp Trp Ser Lys Thr Ala Thr Asn
      210                     215                     220
Gly Leu Lys Lys Gln Thr Val Asn Gln Gly Val Ser Ser Ser Ser Asn
225                     230                     235                     240
Ser Leu Gln Ser Ser Ser Asn Ser Thr Asn Ser Thr Thr Leu Leu Val
                  245                     250                     255
```

```
Asn Asn Asp Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr
        260                 265                 270
Glu Arg Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu
        275                 280                 285
His Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
        290                 295                 300
Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg Gly
305                 310                 315                 320
Ser Leu His Phe Ile Glu Gln Met  *
                325         328
```

```
<210> 1583
<211> 49
<212> PRT
<213> Homo sapiens
```

```
<400> 1583
Met Gly Met Gly Arg Leu Leu Pro Met Ala Trp Val Leu Ala Gly Ile
1               5               10              15
Pro Thr Gly Ala Gln Gln Ser Trp Arg Arg Pro Trp Ser Gly Ser Ala
            20              25              30
Pro Arg Cys Ala Ser Cys Gly Ser Ala Trp Arg Cys Cys Ala Val Arg
        35              40              45      48
 *
```

```
<210> 1584
<211> 671
<212> PRT
<213> Homo sapiens
```

```
<400> 1584
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
1               5               10              15
Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
            20              25              30
Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
            35              40              45
Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
    50              55              60
Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
65              70              75              80
Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
            85              90              95
Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
        100             105             110
Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
        115             120             125
Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
        130             135             140
Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
145             150             155             160
Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu
```

```
                        165                     170                     175
Asp Pro Ala Val Leu Ala Trp Ser Ile Ala Pro Glu Pro Val Pro Gln
            180                     185                     190
Glu Glu Ala Ser Ile Trp Pro Phe Glu Gly Leu Gly Gln Leu Gln Pro
        195                     200                     205
Pro Ala Val Glu Ile Pro Tyr His Glu Ile Leu Trp Arg Glu Trp Glu
    210                     215                     220
Asp Phe Ser Thr Gln Pro Asp Ala Gln Gly Leu Lys Ala Gly Asp Gly
225                     230                     235                     240
Pro Gln Phe Gln Phe Thr Leu Met Ser Tyr Asn Ile Leu Ala Gln Asp
                245                     250                     255
Leu Met Gln Gln Ser Ser Glu Leu Tyr Leu His Cys His Pro Asp Ile
            260                     265                     270
Leu Asn Trp Asn Tyr Arg Phe Val Asn Leu Met Gln Glu Phe Gln His
            275                     280                     285
Trp Asp Pro Asp Ile Leu Cys Leu Gln Glu Val Gln Glu Asp His Tyr
    290                     295                     300
Trp Glu Gln Leu Glu Pro Ser Leu Arg Met Met Gly Phe Thr Cys Phe
305                     310                     315                     320
Tyr Lys Arg Arg Thr Gly Cys Lys Thr Asp Gly Cys Ala Val Cys Tyr
                325                     330                     335
Lys Pro Thr Arg Phe Arg Leu Leu Cys Ala Ser Pro Val Glu Tyr Phe
            340                     345                     350
Arg Pro Gly Leu Glu Leu Leu Asn Arg Asp Asn Val Gly Leu Val Leu
        355                     360                     365
Leu Leu Gln Pro Leu Val Pro Glu Gly Leu Gly Gln Val Ser Val Ala
    370                     375                     380
Pro Leu Cys Val Ala Asn Thr His Ile Leu Tyr Asn Pro Arg Arg Gly
385                     390                     395                     400
Asp Val Lys Leu Ala Gln Met Ala Ile Leu Leu Ala Glu Val Asp Lys
                405                     410                     415
Val Ala Arg Leu Ser Asp Gly Ser His Cys Pro Ile Ile Leu Cys Gly
            420                     425                     430
Asp Leu Asn Ser Val Pro Asp Ser Pro Leu Tyr Asn Phe Ile Arg Asp
        435                     440                     445
Gly Glu Leu Gln Tyr His Gly Met Pro Ala Trp Lys Val Ser Gly Gln
    450                     455                     460
Glu Asp Phe Ser His Gln Leu Tyr Gln Arg Lys Leu Gln Ala Pro Leu
465                     470                     475                     480
Trp Pro Ser Ser Leu Gly Ile Thr Asp Cys Cys Gln Tyr Val Thr Ser
                485                     490                     495
Cys His Pro Lys Arg Ser Glu Arg Arg Lys Tyr Gly Arg Asp Phe Leu
            500                     505                     510
Leu Arg Phe Arg Phe Cys Ser Ile Ala Cys Gln Arg Pro Val Gly Leu
        515                     520                     525
Val Leu Met Glu Gly Val Thr Asp Thr Lys Pro Glu Arg Pro Ala Gly
    530                     535                     540
Trp Ala Glu Ser Val Leu Glu Glu Asp Ala Ser Glu Leu Glu Pro Ala
545                     550                     555                     560
Phe Ser Arg Thr Val Gly Thr Ile Gln His Cys Leu His Leu Thr Ser
                565                     570                     575
Val Tyr Thr His Phe Leu Pro Gln Arg Gly Arg Pro Glu Val Thr Thr
            580                     585                     590
Met Pro Leu Gly Leu Gly Met Thr Val Asp Tyr Ile Phe Phe Ser Ala
        595                     600                     605
Glu Ser Cys Glu Asn Gly Asn Arg Thr Asp His Arg Leu Tyr Arg Asp
    610                     615                     620
Gly Thr Leu Lys Leu Leu Gly Arg Leu Ser Leu Leu Ser Glu Glu Ile
625                     630                     635                     640
```

897

```
Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
             645                 650                 655
Leu Cys Leu Leu Ala Ser Leu Gly Met Glu Val Thr Ala Pro  *
             660                 665                 670
```

```
        <210> 1585
        <211> 318
        <212> PRT
        <213> Homo sapiens


        <400> 1585
Met Met Cys Leu Lys Ile Leu Arg Ile Ser Leu Ala Ile Leu Ala Gly
 1             5                  10                 15
Trp Ala Leu Cys Ser Ala Asn Ser Glu Leu Gly Trp Thr Arg Lys Lys
             20                 25                 30
Ser Leu Val Glu Arg Glu His Leu Asn Gln Val Leu Leu Glu Gly Glu
             35                 40                 45
Arg Cys Trp Leu Gly Ala Lys Val Arg Arg Pro Arg Ala Ser Pro Gln
     50                 55                 60
His His Leu Phe Gly Val Tyr Pro Ser Arg Ala Gly Asn Tyr Leu Arg
 65             70                 75                 80
Pro Tyr Pro Val Gly Glu Gln Glu Ile His His Thr Gly Arg Ser Lys
             85                 90                 95
Pro Asp Thr Glu Gly Asn Ala Val Ser Leu Val Pro Pro Asp Leu Thr
             100                105                110
Glu Asn Pro Ala Gly Leu Arg Gly Ala Val Glu Glu Pro Ala Ala Pro
             115                120                125
Trp Val Gly Asp Ser Pro Ile Gly Gln Ser Glu Leu Leu Gly Asp Asp
     130                135                140
Asp Ala Tyr Leu Gly Asn Gln Arg Ser Lys Glu Ser Leu Gly Glu Ala
145             150                155                160
Gly Ile Gln Lys Gly Ser Ala Met Ala Ala Thr Thr Thr Thr Ala Ile
             165                170                175
Phe Thr Thr Leu Asn Glu Pro Lys Pro Glu Thr Gln Arg Arg Gly Trp
             180                185                190
Ala Lys Ser Arg Gln Arg Arg Gln Val Trp Lys Arg Arg Ala Glu Asp
     195                200                205
Gly Gln Gly Asp Ser Gly Ile Ser Ser His Phe Gln Pro Trp Pro Lys
     210                215                220
His Ser Leu Lys His Arg Val Lys Lys Ser Pro Pro Glu Glu Ser Asn
225             230                235                240
Gln Asn Gly Gly Glu Gly Ser Tyr Arg Glu Ala Glu Thr Phe Asn Ser
             245                250                255
Gln Val Gly Leu Pro Ile Leu Tyr Phe Ser Gly Arg Arg Glu Arg Leu
             260                265                270
Leu Leu Arg Pro Glu Val Leu Ala Glu Ile Pro Arg Glu Ala Phe Thr
             275                280                285
Val Glu Ala Trp Val Lys Pro Glu Gly Gly Gln Asn Asn Pro Ala Ile
     290                295                300
Ile Ala Gly Asn Thr Leu Leu Leu Gly Phe Leu Lys Ser  *
305                310                315     317


        <210> 1586
        <211> 80
```

```
<212> PRT
<213> Homo sapiens


<400> 1586
Met Ile Ala Leu Thr Gln Leu Leu Thr Phe Ile Leu Ser Cys Asn Ser
1               5                   10                  15
Ser Leu Leu His Ile Phe Pro Phe Cys Glu Gln Val Leu Val Glu Asn
            20                  25                  30
Gly Thr Lys Ala Gly His Ser Leu Leu Met Asp Ala Arg Asp Leu Val
            35                  40                  45
Leu Lys Gly Lys Glu Lys Ser Pro Leu Asp Pro Arg Pro Gly Phe Val
    50                  55                  60
Phe Ala Pro Val Ser Ile Thr Ser Ala Cys Pro Thr Thr Arg Ile  *
65                  70                  75              79



<210> 1587
<211> 316
<212> PRT
<213> Homo sapiens


<400> 1587
Met Phe Phe Gly Ser Ala Ala Leu Gly Thr Leu Thr Gly Leu Ile Ser
1               5                   10                  15
Ala Leu Val Leu Lys His Ile Asp Leu Arg Lys Thr Pro Ser Leu Glu
            20                  25                  30
Phe Gly Met Met Ile Ile Phe Ala Tyr Leu Pro Tyr Gly Leu Ala Glu
            35                  40                  45
Gly Ile Ser Leu Ser Gly Ile Met Ala Ile Leu Phe Ser Gly Ile Val
    50                  55                  60
Met Ser His Tyr Thr His His Asn Leu Ser Pro Val Thr Gln Ile Leu
65                  70                  75                  80
Met Gln Gln Thr Leu Arg Thr Val Ala Phe Leu Cys Glu Thr Cys Val
                85                  90                  95
Phe Ala Phe Leu Gly Leu Ser Ile Phe Ser Phe Pro His Lys Phe Glu
            100                 105                 110
Ile Ser Phe Val Ile Trp Cys Ile Val Leu Val Leu Phe Gly Arg Ala
        115                 120                 125
Val Asn Ile Phe Pro Leu Ser Tyr Leu Leu Asn Phe Phe Arg Asp His
    130                 135                 140
Lys Ile Thr Pro Lys Met Met Phe Ile Met Trp Phe Ser Gly Leu Arg
145                 150                 155                 160
Gly Ala Ile Pro Tyr Ala Leu Ser Leu His Leu Asp Leu Glu Pro Met
                165                 170                 175
Glu Lys Arg Gln Leu Ile Gly Thr Thr Thr Ile Val Ile Val Leu Phe
            180                 185                 190
Thr Ile Leu Leu Leu Gly Gly Ser Thr Met Pro Leu Ile Arg Leu Met
        195                 200                 205
Asp Ile Glu Asp Ala Lys Ala His Arg Arg Asn Lys Lys Asp Val Asn
    210                 215                 220
Leu Ser Lys Thr Glu Lys Met Gly Asn Thr Val Glu Ser Glu His Leu
225                 230                 235                 240
Ser Glu Leu Thr Glu Glu Glu Tyr Glu Ala His Tyr Ile Arg Arg Gln
                245                 250                 255
Asp Leu Lys Gly Phe Val Trp Leu Asp Ala Lys Tyr Leu Asn Pro Phe
            260                 265                 270
```

```
Phe Thr Arg Arg Leu Thr Gln Glu Asp Leu His His Gly Arg Ile Gln
    275                 280                 285
Met Lys Thr Leu Thr Asn Lys Trp Tyr Glu Glu Val Arg Gln Gly Pro
    290                 295                 300
Ser Gly Ser Glu Asp Asp Glu Gln Glu Leu Leu  *
305                 310                 315
```


```
        <210> 1588
        <211> 53
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(53)
        <223> Xaa = any amino acid or nothing


        <400> 1588
Met Cys Ser Leu Met Phe Gly Ser Ser Val Phe Val Cys Phe Pro Pro
  1               5               10                  15
Cys Val Pro Leu Pro Ala Pro His Ser Gly Gly Pro Pro His Arg Ala
            20              25                  30
Gly Arg Ser Val Phe Ser Ala Met Lys Leu Gly Lys Xaa Arg Ser His
        35              40                  45
Lys Glu Glu Pro Gln
    50          53
```


```
        <210> 1589
        <211> 437
        <212> PRT
        <213> Homo sapiens


        <400> 1589
Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
  1               5               10                  15
Ser Gln Ser Leu Ala Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
            20              25                  30
Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
        35              40                  45
Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
    50              55                  60
Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
65              70                  75                  80
Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
            85              90                  95
Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
            100             105                 110
Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
        115             120                 125
Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
    130             135                 140
Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
145             150                 155                 160
Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser
```

```
                    165                   170                   175
Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
            180                   185                   190
Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
        195                   200                   205
Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
210                   215                   220
Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
225                   230                   235                   240
Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
                245                   250                   255
Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
            260                   265                   270
Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
        275                   280                   285
Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
    290                   295                   300
Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
305                   310                   315                   320
Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
                325                   330                   335
Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
            340                   345                   350
His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
        355                   360                   365
Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
    370                   375                   380
Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
385                   390                   395                   400
Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
                405                   410                   415
Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
                420                   425                   430
Asp Val Tyr Ile *
            435 436
```

```
    <210> 1590
    <211> 49
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1590
Met Phe Gln Ile Tyr Phe Ser Phe Cys Gln Leu Cys Phe Ile Trp Ser
1               5                   10                  15
Cys Phe Phe Asn Ser Arg Glu Thr Phe Asn Glu Ile Tyr Lys Phe Phe
            20                  25                  30
Leu Lys Ser Val Met Val Arg Lys Ile Phe Glu Cys His Lys Met Ser
        35                  40                  45              48
    *
```

```
    <210> 1591
    <211> 73
    <212> PRT
```

<213> Homo sapiens

<400> 1591
Met Ser Leu Asn Val Leu Leu Ala Leu Phe Cys Leu Leu Leu Ala Lys
1   5   10   15
Glu Arg Thr Thr Thr Lys Arg Cys Ile Ser Cys Leu Pro Phe Ser Thr
            20   25   30
Phe Phe Ser Phe Gly Pro Leu Gln Lys Val Thr Asp Pro Ser Ser Trp
        35   40   45
Ala Leu Ala Phe Ser Val Cys Gln Ala Cys Thr Arg Ser Glu Leu Pro
    50   55   60
Gly Ala Leu Arg Thr Arg Gly Ser Thr
65   70   73

<210> 1592
<211> 62
<212> PRT
<213> Homo sapiens

<400> 1592
Met Tyr Phe Ser Leu Ile Phe Leu Val Phe Phe Phe Leu Ser Leu Pro
1   5   10   15
Leu Ser Ser Ser Ser Ser Glu Pro Thr Ser Ser Ile Leu Gly Phe Ser
            20   25   30
Ser Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Phe Ser Ser Ser Ala
        35   40   45
Ser Ser Ser Leu Ile Ser Phe Ser Arg Ser Phe Ser Lys   *
    50   55   60 61

<210> 1593
<211> 128
<212> PRT
<213> Homo sapiens

<400> 1593
Met Arg Ala Met Leu Gly Thr Cys Ala Leu Gly Gln Phe Phe Leu Ile
1   5   10   15
Met Gly Asn Thr Gln Arg Cys Asp Asp Phe Pro Thr Glu Ser Pro Pro
            20   25   30
Ala Lys Thr Asn Val Ser Arg Ala Gly Leu Ser Pro Pro Cys Glu Ala
        35   40   45
Leu His Gly Val Glu Ser Arg Gly Ser Cys Ser His Gly Lys Leu Gln
    50   55   60
Ser Pro Pro Gly Arg Asp Trp Pro Gln Gly Asp Pro Gln Asp Arg Pro
65   70   75   80
Lys Arg Arg Trp Gln Arg Pro Gly Pro Ala Gly Arg Gly Ala Pro Asp
                85   90   95
Pro Thr Pro Lys Gly Gln Gly Ala Ala Val Pro Pro Arg Ser Ala Ser
            100   105   110
Met Phe Leu Ile His Lys Gln Met Trp Ala Tyr Gly Phe Gly Asp   *
        115   120   125 127

```
<210> 1594
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1594
Met Ile Trp Ala Leu Ser Ser Ser Leu Ile Pro Phe Leu Ile Ala Leu
1               5                   10                  15
Cys Phe Val His Ser Ala Asn Ser His Leu Gln Val Leu Val Ile Cys
                20                  25                  30
Ser Ser Leu Phe Leu Glu Pro Pro Pro His Asn Phe Met  *
            35                  40                  45
```

```
<210> 1595
<211> 86
<212> PRT
<213> Homo sapiens


<400> 1595
Met Trp Glu Glu Leu Leu Arg Gly Leu Thr Ala Pro Tyr Trp Leu Ser
1               5                   10                  15
Ser Trp Leu Cys Phe Ser Trp Arg Ala Ala Thr Val Ala Val Ala Val
                20                  25                  30
Ala Val Ala Val Ala Ala Ala Ala Ala Thr Ala Ala Ala Ala Ala Ala
            35                  40                  45
Cys Val Lys Ser Val Glu Gly Leu Ala Ala Cys Glu Gly Arg Pro Arg
        50                  55                  60
Pro Pro Gly Pro Pro Ala Tyr Leu Gln Glu Thr Gln Asp Cys His Ala
65                  70                  75                  80
Leu Cys Val Gly Ser  *
                85
```

```
<210> 1596
<211> 69
<212> PRT
<213> Homo sapiens


<400> 1596
Met Val Leu Ser Trp Leu Thr Leu Ile Glu Ala Leu Ala Asp Val Met
1               5                   10                  15
Thr Thr Asp Gly Asn Met Leu Gln Leu Phe Cys Val Glu Arg Thr Asn
                20                  25                  30
Leu Leu Val Asn Gln Ile Arg Met Thr Leu Tyr Ala Gln Tyr Arg His
            35                  40                  45
Val Arg Pro Phe Arg Thr Ile Met Lys Pro Ile Leu Thr Arg Glu Val
        50                  55                  60
Gln Thr Lys Asp  *
65          68
```

```
<210> 1597
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1597
Met Phe Leu Leu Phe Ser Arg Ile Ser Asn Leu Met Phe Val Asn His
1               5                   10                  15
Lys Leu Pro Met Leu Ile Thr Glu Asn Lys Gln Val Ser Lys Glu Glu
            20                  25                  30
Asn Lys Ala Thr His Ser His Arg Ser Ser Phe Gln Ser Ser Thr Ile
        35                  40                  45
Ser Ser Arg Leu Asn Leu Ile *
    50                  55
```

```
<210> 1598
<211> 97
<212> PRT
<213> Homo sapiens


<400> 1598
Met His Glu Ser Pro Leu Ala Trp Ala Ser Val His Leu Ser Ser Leu
1               5                   10                  15
Pro Leu Leu Cys Thr Ala Cys Ser Ser Pro Leu Met Gly Asn Ser Val
            20                  25                  30
Leu Cys Arg Ala Pro Ala Asp Met Gly Leu Ala Trp Met Leu Leu Leu
        35                  40                  45
Ser Glu Pro Arg Arg Val Val Pro Gly Ile Ala Ala Gln Val Leu Thr
    50                  55                  60
Ala Leu Arg Arg Arg Leu Leu Ser Gly Thr Leu Pro Ser Phe Pro Arg
65                  70                  75                  80
Arg Lys Asn Pro Leu His Glu His Leu Leu Ala Phe Ile Val Arg Leu
                85                  90                  95  96
    *
```

```
<210> 1599
<211> 113
<212> PRT
<213> Homo sapiens


<400> 1599
Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe
1               5                   10                  15
Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala
            20                  25                  30
Pro Pro Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Arg
        35                  40                  45
Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Leu Ile
    50                  55                  60
Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Arg Trp
```

```
      65                      70                      75                      80
Asp Pro Tyr His Leu Ser Arg Asp Leu Tyr Tyr Leu Thr Val Glu Ser
                         85                      90                      95
Ser Glu Lys Glu Ser Cys Arg Thr Pro Lys Val Val Asp Ile Pro Asp
                100                     105                     110     112
 *
```

```
      <210> 1600
      <211> 103
      <212> PRT
      <213> Homo sapiens


      <400> 1600
Met Gly Ala Trp Ala Trp Val Pro Thr Pro Ser Leu Cys Leu Cys His
 1                   5                      10                      15
Ser Thr Cys Leu Glu Phe Leu Leu Phe Leu Tyr Ile Leu Phe Tyr Cys
                20                      25                      30
Ile Phe Glu Thr Val Ser Leu Ser Pro Arg Leu Glu Arg Ser Gly Ala
             35                      40                      45
Ile Leu Ala Arg Cys Asn Leu Cys Leu Arg Gly Ser Ser Asp Ser Arg
          50                      55                      60
Ala Leu Ala Ser Arg Val Ala Glu Thr Thr Gly Met His His His Ala
 65                      70                      75                      80
Trp Leu Ile Phe Ala Phe Leu Val Glu Thr Gly Phe His His Val Gly
                85                      90                      95
Gln Ala Gly Leu Asn Ser  *
             100     102
```

```
      <210> 1601
      <211> 84
      <212> PRT
      <213> Homo sapiens


      <400> 1601
Met Val Ala Leu Leu Cys Arg Gln Ile Ile Ser Ala Ala Phe Ser Gly
 1                   5                      10                      15
Glu Gly Thr Pro Leu Cys Ser Trp Ser Ser Gly Pro Ile Leu Ser Ser
                20                      25                      30
Val Cys Leu Leu Cys Pro Leu Ala Val Leu Cys Pro Ala Lys Pro Glu
             35                      40                      45
Pro Arg Ala Phe Thr Asp Leu Arg Gly Glu Glu Val Cys Ala Asp Trp
          50                      55                      60
Phe Met Gly Gly His Gly Arg Val Glu Arg Gly Thr Met Ser Pro His
 65                      70                      75                      80
Ser Gly Leu  *
          83
```

```
      <210> 1602
      <211> 91
      <212> PRT
```

<213> Homo sapiens

<400> 1602
Met Lys Thr Leu Pro Val Leu Val Leu Ser Leu Thr Leu Leu Thr Val
1   5   10   15
Phe Ser Glu Thr Ser Pro Ile Leu Thr Glu Lys Gln Ala Lys Gln Leu
                20   25   30
Leu Arg Ser Arg Arg Gln Asp Arg Pro Ser Lys Pro Gly Phe Pro Asp
        35   40   45
Glu Pro Met Arg Glu Tyr Met His His Leu Leu Ala Leu Glu His Arg
    50   55   60
Ala Glu Glu Gln Phe Leu Glu His Trp Leu Asn Pro His Cys Lys Pro
65   70   75   80
His Cys Asp Arg Asn Arg Ile His Pro Val *
                85   90

<210> 1603
<211> 69
<212> PRT
<213> Homo sapiens

<400> 1603
Met Lys Arg Asp Val Leu Ile Thr Glu Thr Phe Cys Ile Leu Phe Trp
1   5   10   15
Leu Cys Ala Phe Ser Ser Met Asn Asp Tyr Val Phe Lys Pro His Val
                20   25   30
Leu Tyr Ile Asp Cys Pro Leu Lys Arg Leu Asp Ser Ser Val Cys Gln
        35   40   45
His Ile Gly Thr Glu Tyr Asn Tyr Thr Leu Ile Ile Ser Gln Val Phe
    50   55   60
Ile Leu Glu Val *
65   68

<210> 1604
<211> 83
<212> PRT
<213> Homo sapiens

<400> 1604
Met Leu Gln Pro Met Phe Phe Thr Leu Ser Thr His Leu Val Gly Leu
1   5   10   15
Ser Gln Ile Ser Tyr Leu Ser Phe Pro Leu Ile Ser Leu His Pro Ala
                20   25   30
Gln Val Val Lys Arg Gln Ser Ser Leu Pro Arg Leu Met Gln Ser Ser
        35   40   45
Lys Glu Ser Lys Ala Val Leu Val Glu Ile Ile Leu Arg Ala Arg Lys
    50   55   60
Val Val Lys Tyr Ile Ser Lys Gly Phe Leu Arg Ala Val Cys Ala Glu
65   70   75   80
Met Ile *
    82

```
<210> 1605
<211> 110
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(110)
<223> Xaa = any amino acid or nothing


<400> 1605
Met Ser Thr Ile Ile Phe Gln Trp Pro Phe Met Leu Val Ser Leu His
1               5                   10                  15
Arg Cys Arg Lys Leu Pro Arg Ala Leu Lys Asp Trp Gln Ala Phe Leu
            20                  25                  30
Asp Leu Lys Lys Ile Ile Asp Asp Phe Ser Glu Cys Cys Pro Leu Leu
        35                  40                  45
Glu Tyr Met Gly Ser Lys Ala Met Met Glu Arg His Xaa Glu Arg Ile
    50                  55                  60
Thr Thr Leu Thr Gly His Ser Leu Asp Val Gly Asn Glu Ser Phe Lys
65                  70                  75                  80
Leu Arg Asn Ile Met Glu Ala Pro Leu Leu Xaa Tyr Lys Glu Glu Ile
                85                  90                  95
Glu Val Glu Tyr Asp Val Met Glu Asp Cys Lys Val Ser Trp
            100                 105                 110



<210> 1606
<211> 72
<212> PRT
<213> Homo sapiens


<400> 1606
Met Thr Ala Gly Thr Val Thr Met Leu Leu Trp His Ala Ser Asn Trp
1               5                   10                  15
Asp Val Gln Leu Pro Ser Gln Pro Leu Val Glu Leu Thr Pro Val Arg
            20                  25                  30
Asp Leu Asp Thr Ser Gly Leu Thr Ala Phe Leu Ala Arg Asp Met Asn
        35                  40                  45
Leu Leu Ser Gly Asn Val Asn Thr Met Asn Gly Glu Ser Ile Ile Ala
    50                  55                  60
Ile Thr Met Lys Met Leu Ala  *
65                  70  71



<210> 1607
<211> 59
<212> PRT
<213> Homo sapiens


<400> 1607
Met Phe Thr Arg Phe Ile Gly Leu Phe Leu Lys Phe Ile Leu Met Phe
1               5                   10                  15
```

```
Phe Leu Leu Leu Ser Phe Ile Ser Tyr Phe Cys Leu Phe Pro Cys Ser
            20                  25                  30
Asn Leu Pro Lys Val Ile Ala Ile Phe Asn Ile Val Leu Ile Leu Ser
            35                  40                  45
Ile Val Phe Arg Glu Ile Thr Asp Thr Tyr  *
    50                  55          58
```

```
        <210> 1608
        <211> 118
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1608
Met Leu Val Thr Asp Thr Glu Ala Phe Trp Gln Pro Gln Pro Trp Phe
  1               5                  10                  15
Val Val Val Leu Thr Ala Thr Gly Ala Leu Leu Leu Leu Ala Leu Gly
            20                  25                  30
Trp Leu Leu Gly Arg Leu Leu Gln Gly Leu Ala Gln Leu Leu Gln Ala
            35                  40                  45
Pro Ser Lys Pro Ala Gln Ala Leu Leu Leu Asn Ser Ile Gln Gly Thr
    50                  55                  60
Glu Gly Ser Ile Glu Gly Phe Leu Glu Ala Pro Lys Met Glu Met Ser
 65                  70                  75                  80
Gln Ala Pro Ser Ser Val Met Ser Leu Gln His Phe Asp Gly Arg Thr
            85                  90                  95
Gln Asp Ser Arg Thr Gly Arg Asp Tyr Leu Val Asn Thr His Thr Gly
            100                 105                 110
Ala Arg Arg Trp Leu  *
            115     117
```

```
        <210> 1609
        <211> 50
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1609
Met Val Ile Gly Ser Leu His Thr Phe Thr Leu Leu Ala Ala Ser Ser
  1               5                  10                  15
Leu Val Asp Thr Pro Lys Gln Ile Gln Leu Leu Met Gln Asn Leu Met
            20                  25                  30
Asn Asp Pro Arg Lys Glu Val Lys Ile Leu Ala Ile Gln Asp Leu Lys
            35                  40                  45
Leu Leu
    50
```

```
        <210> 1610
        <211> 50
        <212> PRT
        <213> Homo sapiens
```

<400> 1610
Met Val Leu Ile Leu Ser Pro Gly Leu Ser Ile Leu Phe Thr Lys Met
1   5   10   15
Ser Glu Thr Phe Ser Ser Ser Leu Leu Lys Leu Ser Ser Ser Ile Cys
            20   25   30
Ile Phe Pro Leu Cys Ile Asn Met Ile Ile Cys Tyr Gln Lys Lys Ser
            35   40   45
Gln *
49

        <210> 1611
        <211> 56
        <212> PRT
        <213> Homo sapiens

        <400> 1611
Met Ser Phe Gln Ala Phe Val Phe Leu Met Ile Gly Trp Leu His Pro
1   5   10   15
Asp Pro Arg Leu Met Thr Gln Arg Ser Cys Gly Pro His Pro Glu Val
            20   25   30
Asp Ser Ala Gln Glu Asp His Phe Ser His Pro Tyr Asp Ile Pro Asn
            35   40   45
Gln Ser Ala Pro Pro Leu Pro *
    50   55

        <210> 1612
        <211> 75
        <212> PRT
        <213> Homo sapiens

        <400> 1612
Met Leu Thr Leu Ala Leu Leu Val Leu Arg Ile Cys Val Cys Glu Ala
1   5   10   15
Ala Ser Thr Phe Val Cys Pro Cys Leu Pro Trp Leu Ser Leu Leu Phe
            20   25   30
Leu His Leu Leu Pro Arg Leu Phe Gln Val Gln Ile Trp Phe Leu Leu
            35   40   45
Phe Leu Pro Phe Leu Leu Leu Leu Pro Ser Val Pro Glu Ile Phe Pro
    50   55   60
Ala Pro Gln Ala Trp Gly Leu Gly Cys Ser *
65   70   74

        <210> 1613
        <211> 192
        <212> PRT
        <213> Homo sapiens

        <400> 1613
Met Phe Thr Cys Leu Phe Leu Phe Ser Ala Val Leu Arg Ala Leu Phe
1   5   10   15

909

```
Arg Lys Ser Asp Pro Lys Arg Phe Gln Asn Ile Phe Thr Thr Ile Phe
            20                  25                  30
Thr Leu Phe Thr Leu Leu Thr Leu Asp Asp Trp Ser Leu Ile Tyr Met
            35                  40                  45
Asp Ser Arg Ala Gln Gly Ala Trp Tyr Ile Ile Pro Ile Leu Ile Ile
        50                  55                  60
Tyr Ile Ile Ile Gln Tyr Phe Ile Phe Leu Asn Leu Val Ile Thr Val
65                  70                  75                      80
Leu Val Asp Ser Phe Gln Thr Ala Leu Phe Lys Gly Leu Glu Lys Ala
                85                  90                      95
Lys Gln Glu Arg Ala Ala Arg Ile Gln Glu Lys Leu Leu Glu Asp Ser
            100                 105                 110
Leu Thr Glu Leu Arg Ala Ala Glu Pro Lys Glu Val Ala Ser Glu Gly
        115                 120                 125
Thr Met Leu Lys Arg Leu Ile Glu Lys Lys Phe Gly Thr Met Thr Glu
    130                 135                 140
Lys Gln Gln Glu Leu Leu Phe His Tyr Leu Gln Leu Val Ala Ser Val
145                 150                 155                 160
Glu Gln Glu Gln Gln Lys Phe Arg Ser Gln Ala Ala Val Ile Asp Glu
                165                 170                 175
Ile Val Asp Thr Thr Phe Glu Ala Gly Glu Glu Asp Phe Arg Asn  *
            180                 185                 190 191


        <210> 1614
        <211> 153
        <212> PRT
        <213> Homo sapiens


        <400> 1614
Met Asp Leu Val Gln Phe Phe Val Thr Phe Phe Ser Cys Phe Leu Ser
1               5                   10                  15
Leu Leu Leu Val Ala Ala Val Val Trp Lys Ile Lys Gln Thr Cys Trp
            20                  25                  30
Ala Ser Arg Arg Arg Glu Gln Leu Leu Arg Glu Arg Gln Gln Met Ala
        35                  40                  45
Ser Arg Pro Phe Ala Ser Val Asp Val Ala Leu Glu Val Gly Ala Glu
    50                  55                  60
Gln Thr Glu Phe Leu Arg Gly Pro Leu Glu Gly Ala Pro Lys Pro Ile
65                  70                  75                      80
Ala Ile Glu Pro Cys Ala Gly Asn Arg Ala Ala Val Leu Thr Val Phe
                85                  90                      95
Leu Cys Leu Pro Arg Gly Ser Ser Gly Ala Pro Pro Pro Gly Gln Ser
            100                 105                 110
Gly Leu Ala Ile Ala Ser Ala Leu Ile Asp Ile Ser Gln Gln Lys Ala
        115                 120                 125
Ser Asp Ser Lys Asp Lys Thr Ser Gly Val Arg Asn Arg Lys His Leu
    130                 135                 140
Ser Thr Arg Gln Gly Thr Cys Val  *
145                 150     152


        <210> 1615
        <211> 135
        <212> PRT
        <213> Homo sapiens
```

```
<400> 1615
Met His Trp Leu Arg Ala Ser Ala Gly Ser Leu Leu Met Val Pro Leu
1                 5                  10                  15
Met Thr Asp Leu His Glu Leu Ala Leu Pro Pro Ala Ser Leu Arg Thr
            20                  25                  30
Val Val Lys Glu Asn Met Cys Val Leu Pro Phe Pro Val Lys Thr Ser
        35                  40                  45
Gly Arg Ser Leu Thr Gly Ser Ala Trp Ser Arg Phe His Leu Pro Cys
    50                  55                  60
His Leu Arg Pro Gly Asp Arg Leu Pro Cys His Cys Leu Gly Lys Phe
65                  70                  75                  80
Arg Lys Arg Val Ala Lys Trp Cys Ile Arg Lys Asn Met Ala Arg Ser
                85                  90                  95
Pro His Leu Leu Gly Gly Arg Pro Asn Ser Thr Ser Gly Pro Leu Cys
        100                 105                 110
Asp Phe Pro Ala Pro Ser Lys Gln Val Thr Pro Leu Leu Trp Val Ser
        115                 120                 125
Val Ser Leu Pro Ile Lys  *
    130             134
```

```
<210> 1616
<211> 60
<212> PRT
<213> Homo sapiens
```

```
<400> 1616
Met Leu His Gln Met Lys Phe Ile Gly His Leu Ile Phe Ile Val Val
1                 5                  10                  15
Leu Asp Pro Asp Leu Ser Asp Met Lys Asn Asn Glu Pro Tyr Asp Tyr
            20                  25                  30
Lys Phe Val Lys Trp Met Thr Lys His Lys Val Met Phe Ile Val Leu
        35                  40                  45
Cys Lys Ile Leu Leu Tyr Phe Ile Val Asn Phe  *
    50                  55                  59
```

```
<210> 1617
<211> 49
<212> PRT
<213> Homo sapiens
```

```
<400> 1617
Met Pro Glu His Leu Cys Phe Glu Ile Cys Asn Thr Leu Leu Asn Phe
1                 5                  10                  15
Phe Ser Phe Leu Leu Leu Cys Val Thr Asp His Glu Thr Thr Phe Phe
            20                  25                  30
Asp Ser Gly Trp Lys Ala Ser Gly Ser Thr Val Thr Cys Lys Ala Gly
        35                  40                  45
 *
```

```
<210> 1618
<211> 95
<212> PRT
<213> Homo sapiens


<400> 1618
Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro
1               5                   10                  15
Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro
            20                  25                  30
Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Met Ala Ala
        35                  40                  45
Leu Leu Ser Leu Ala Met Ala Thr Phe Thr Gln Glu Pro Gln Leu Cys
    50                  55                  60
Leu Ser Cys Leu Ser Gln His Gly Ser Ile Leu Met Ser Ile Leu Lys
65                  70                  75                  80
His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala  *
                85                  90                  94



<210> 1619
<211> 54
<212> PRT
<213> Homo sapiens


<400> 1619
Met Ile Leu Met Leu Leu Leu Ile Val Asp Leu Val Gln Leu Ala
1               5                   10                  15
Gly Asn Ala Val Ile Ser Ser Gly Ser Trp Asp Ser Ala Cys Thr Gly
            20                  25                  30
Thr Pro Ser Pro Ser Thr Pro Ser Thr Trp Pro Gly Pro Thr Ser Ser
        35                  40                  45
Ser Ala Pro Arg Phe  *
    50          53



<210> 1620
<211> 71
<212> PRT
<213> Homo sapiens


<400> 1620
Met Cys Cys Ser Phe Leu Leu Glu Gly Leu Ile Ser Leu Phe Ser Leu
1               5                   10                  15
Gln Leu Phe Ser Val Gln Leu Val Leu Leu Phe Phe Leu Trp Ile Val
            20                  25                  30
Ser Tyr Ser Lys Lys Gln Ile Lys Asp Thr Phe Ala Lys Thr Lys Asn
        35                  40                  45
Thr Val Ala Arg Ile Leu Leu Ser Ile Pro Asp Leu Pro Ser Leu Thr
    50                  55                  60
Leu Ile Thr Gln Ile Leu  *
65                  70
```

```
<210> 1621
<211> 90
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(90)
<223> Xaa = any amino acid or nothing


<400> 1621
Met Asp His Lys Ser Leu Trp Ala Gly Val Glu Val Leu Leu Leu Leu
1               5                   10                  15
Gln Gly Gly Ser Ala Tyr Lys Leu Val Cys Tyr Phe Thr Asn Trp Ser
            20                  25                  30
Gln Asp Arg Gln Glu Pro Gly Lys Phe Thr Pro Glu Asn Ile Asp Pro
        35                  40                  45
Phe Leu Cys Ser His Leu Ile Tyr Ser Phe Ala Ser Ile Glu Asn Asn
    50                  55                  60
Lys Val Ile Ile Arg Thr Pro Xaa Phe Phe Pro Leu Pro Leu Gly His
65                  70                  75                  80
Arg Leu Gln Thr Ile Asn Pro Arg Leu  *
                85                  89
```

```
<210> 1622
<211> 53
<212> PRT
<213> Homo sapiens


<400> 1622
Met Gln Cys Ala Ile Cys Ile Leu Leu Tyr Leu Leu Asn Lys Lys Thr
1               5                   10                  15
Val Trp Arg Cys Ser Arg Ile His His Asn Asn Thr Val Val Leu Thr
            20                  25                  30
Arg Glu Ser Ser Pro Phe Leu Thr Thr Cys Thr Leu Ser Ser Val Leu
        35                  40                  45
Leu Thr Lys Ala  *
    50      52
```

```
<210> 1623
<211> 978
<212> PRT
<213> Homo sapiens


<400> 1623
Met Pro Ala Arg Arg Leu Leu Leu Leu Leu Thr Leu Leu Leu Pro Gly
1               5                   10                  15
Leu Gly Ile Phe Gly Ser Thr Ser Thr Val Thr Leu Pro Glu Thr Leu
            20                  25                  30
Leu Phe Val Ser Thr Leu Asp Gly Ser Leu His Ala Val Ser Lys Arg
        35                  40                  45
```

913

```
Thr Gly Ser Ile Lys Trp Thr Leu Lys Glu Asp Pro Val Leu Gln Val
    50                      55                  60
Pro Thr His Val Glu Glu Pro Ala Phe Leu Pro Asp Pro Asn Asp Gly
65              70                  75                      80
Ser Leu Tyr Thr Leu Gly Ser Lys Asn Asn Glu Gly Leu Thr Lys Leu
            85                  90                      95
Pro Phe Thr Ile Pro Glu Leu Val Gln Ala Ser Pro Cys Arg Ser Ser
            100                 105                 110
Asp Gly Ile Leu Tyr Met Gly Lys Lys Gln Asp Ile Trp Tyr Val Ile
        115                 120                 125
Asp Leu Leu Thr Gly Glu Lys Gln Gln Thr Leu Ser Ser Ala Phe Ala
    130                 135                 140
Asp Ser Leu Cys Pro Ser Thr Ser Leu Leu Tyr Leu Gly Arg Thr Glu
145                 150                 155                     160
Tyr Thr Ile Thr Met Tyr Asp Thr Lys Thr Arg Glu Leu Arg Trp Asn
            165                 170                 175
Ala Thr Tyr Phe Asp Tyr Ala Ala Ser Leu Pro Glu Asp Asp Val Asp
            180                 185                 190
Tyr Lys Met Ser His Phe Val Ser Asn Gly Asp Gly Leu Val Val Thr
    195                 200                 205
Val Asp Ser Glu Ser Gly Asp Val Leu Trp Ile Gln Asn Tyr Ala Ser
    210                 215                 220
Pro Val Val Ala Phe Tyr Val Trp Gln Arg Glu Gly Leu Arg Lys Val
225                 230                 235                     240
Met His Ile Asn Val Ala Val Glu Thr Leu Arg Tyr Leu Thr Phe Met
            245                 250                 255
Ser Gly Glu Val Gly Arg Ile Thr Lys Trp Lys Tyr Pro Phe Pro Lys
            260                 265                 270
Glu Thr Glu Ala Lys Ser Lys Leu Thr Pro Thr Leu Tyr Val Gly Lys
    275                 280                 285
Tyr Ser Thr Ser Leu Tyr Ala Ser Pro Ser Met Val His Glu Gly Val
    290                 295                 300
Ala Val Val Pro Arg Gly Ser Thr Leu Pro Leu Leu Glu Gly Pro Gln
305                 310                 315                     320
Thr Asp Gly Val Thr Ile Gly Asp Lys Gly Glu Cys Val Ile Thr Pro
                325                 330                 335
Ser Thr Asp Val Lys Phe Asp Pro Gly Leu Lys Ser Lys Asn Lys Leu
            340                 345                 350
Asn Tyr Leu Arg Asn Tyr Trp Leu Leu Ile Gly His His Glu Thr Pro
    355                 360                 365
Leu Ser Ala Ser Thr Lys Met Leu Glu Arg Phe Pro Asn Asn Leu Pro
    370                 375                 380
Lys His Arg Glu Asn Val Ile Pro Ala Asp Ser Glu Lys Lys Ser Phe
385                 390                 395                     400
Glu Glu Val Ile Asn Leu Val Asp Gln Thr Ser Glu Asn Ala Pro Thr
            405                 410                 415
Thr Val Ser Arg Asp Val Glu Glu Lys Pro Ala His Ala Pro Ala Arg
            420                 425                 430
Pro Glu Ala Pro Val Asp Ser Met Leu Lys Asp Met Ala Thr Ile Ile
    435                 440                 445
Leu Ser Thr Phe Leu Leu Ile Gly Trp Val Ala Phe Ile Ile Thr Tyr
    450                 455                 460
Pro Leu Ser Met His Gln Gln Gln Leu Gln His Gln Gln Phe Gln
465                 470                 475                     480
Lys Glu Leu Glu Lys Ile Gln Leu Leu Gln Gln Gln Gln Gln Leu
            485                 490                 495
Pro Phe His Pro Pro Gly Asp Thr Ala Gln Asp Gly Glu Leu Leu Asp
            500                 505                 510
Thr Ser Gly Pro Tyr Ser Glu Ser Ser Gly Thr Ser Ser Pro Ser Thr
```

914

```
          515                    520                    525
Ser Pro Arg Ala Ser Asn His Ser Leu Cys Ser Gly Ser Ser Ala Ser
    530                    535                    540
Lys Ala Gly Ser Ser Pro Ser Leu Glu Gln Asp Asp Gly Asp Glu Glu
545                    550                    555                    560
Thr Ser Val Val Ile Val Gly Lys Ile Ser Phe Cys Pro Lys Asp Val
                565                    570                    575
Leu Gly His Gly Ala Glu Gly Thr Ile Val Tyr Arg Gly Met Phe Asp
                580                    585                    590
Asn Arg Asp Val Ala Val Lys Arg Ile Leu Pro Glu Cys Phe Ser Phe
        595                    600                    605
Ala Asp Arg Glu Val Gln Leu Leu Arg Glu Ser Asp Glu His Pro Asn
    610                    615                    620
Val Ile Arg Tyr Phe Cys Thr Glu Lys Asp Arg Gln Phe Gln Tyr Ile
625                    630                    635                    640
Ala Ile Glu Leu Cys Ala Ala Thr Leu Gln Glu Tyr Val Glu Gln Lys
                645                    650                    655
Asp Phe Ala His Leu Gly Leu Glu Pro Ile Thr Leu Leu Gln Gln Thr
                660                    665                    670
Thr Ser Gly Leu Ala His Leu His Ser Leu Asn Ile Val His Arg Asp
        675                    680                    685
Leu Lys Pro His Asn Ile Leu Ile Ser Met Pro Asn Ala His Gly Lys
    690                    695                    700
Ile Lys Ala Met Ile Ser Asp Phe Gly Leu Trp Lys Lys Leu Ala Val
705                    710                    715                    720
Gly Arg His Ser Phe Ser Arg Arg Ser Gly Val Pro Gly Thr Glu Gly
                725                    730                    735
Trp Ile Ala Pro Glu Met Leu Ser Glu Asp Cys Lys Glu Asn Pro Thr
                740                    745                    750
Tyr Thr Val Asp Ile Phe Ser Ala Gly Cys Val Phe Tyr Tyr Val Ile
                755                    760                    765
Ser Glu Gly Ser His Pro Phe Gly Lys Ser Leu Gln Arg Gln Ala Asn
    770                    775                    780
Ile Leu Leu Gly Ala Cys Ser Leu Asp Cys Leu His Pro Glu Lys His
785                    790                    795                    800
Glu Asp Val Ile Ala Arg Glu Leu Ile Glu Lys Met Ile Ala Met Asp
                805                    810                    815
Pro Gln Lys Arg Pro Ser Ala Lys His Val Leu Lys His Pro Phe Phe
                820                    825                    830
Trp Ser Leu Glu Lys Gln Leu Gln Phe Phe Gln Asp Val Ser Asp Arg
        835                    840                    845
Ile Glu Lys Glu Ser Leu Asp Gly Pro Ile Val Lys Gln Leu Glu Arg
    850                    855                    860
Gly Gly Arg Ala Val Val Lys Met Asp Trp Arg Glu Asn Ile Thr Val
865                    870                    875                    880
Pro Leu Gln Thr Asp Leu Arg Lys Phe Arg Thr Tyr Lys Gly Gly Ser
                885                    890                    895
Val Arg Asp Leu Leu Arg Ala Met Arg Asn Lys Lys His His Tyr Arg
        900                    905                    910
Glu Leu Pro Ala Glu Val Arg Glu Thr Leu Gly Thr Leu Pro Asp Asp
        915                    920                    925
Phe Val Cys Tyr Phe Thr Ser Arg Phe Pro His Leu Leu Ala His Thr
    930                    935                    940
Tyr Arg Ala Met Glu Leu Cys Ser His Glu Arg Leu Phe Gln Pro Tyr
945                    950                    955                    960
Tyr Phe His Glu Pro Pro Glu Pro Gln Pro Pro Val Thr Pro Asp Ala
                965                    970                    975
Leu  *
977
```

```
<210> 1624
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1624
Met His Ser Cys Trp Thr Phe Gln Asp Leu Ser Leu Val Gln Leu Cys
1               5                   10                  15
Leu Pro Leu Ser Cys Pro Gln Gln Gly Pro Val Gly Pro Gly Gly Phe
            20                  25                  30
Leu Leu Pro Val Ser Gln Val Gly Pro Pro Lys Pro Ala Gly His Trp
        35                  40                  45
Gln Arg Lys Leu Leu Met Pro  *
    50                  55
```

```
<210> 1625
<211> 146
<212> PRT
<213> Homo sapiens


<400> 1625
Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val Met Ala Gly Val Ile
1               5                   10                  15
Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys Met Val Lys Gln Val
            20                  25                  30
Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro Tyr Gly Cys His Cys
        35                  40                  45
Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala Thr Asp Trp Cys Cys
    50                  55                  60
Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys Thr Gln Gly Cys Gly
65                  70                  75                  80
Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser Gln Gly Asn Ile His
                85                  90                  95
Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln Leu Cys Ala Cys Asp
            100                 105                 110
Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu Asp Thr Tyr Gln Lys
        115                 120                 125
Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg Gly Gln Thr Pro Gly
    130                 135                 140
Cys  *
145
```

```
<210> 1626
<211> 385
<212> PRT
<213> Homo sapiens


<400> 1626
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
```

```
  1                   5                   10                  15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
               20                  25                  30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
           35                  40                  45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
       50                  55                  60
Glu Trp Val Ser Gly Ile Gly Gly Ser Gly Ser Ser Thr Tyr Tyr Ala
 65                  70                  75                  80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Gln Asn
               85                  90                  95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
           100                 105                 110
Tyr Tyr Cys Ala Lys Ser His Pro Ala Tyr Tyr Tyr Gly Ser Gly Ser
           115                 120                 125
Tyr Ser Ser His Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
       130                 135                 140
Gly Thr Thr Val Thr Val Ser Ser Gly Asp Gly Ser Ser Gly Gly Ser
145                 150                 155                 160
Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr
           165                 170                 175
Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser
           180                 185                 190
Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
           195                 200                 205
Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly
           210                 215                 220
Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
225                 230                 235                 240
Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln
               245                 250                 255
Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr Lys Val Glu
           260                 265                 270
Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
           275                 280                 285
Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn
       290                 295                 300
Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
305                 310                 315                 320
Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
               325                 330                 335
Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
               340                 345                 350
Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Ser Gly Ala
           355                 360                 365
Leu Ser Phe Ala Arg Ser Gln Arg Ser Phe Gln Pro Gly Glu Ser Val
       370                 375                 380                 384
  *
```

```
<210> 1627
<211> 101
<212> PRT
<213> Homo sapiens


<400> 1627
```

```
Met Ile Val His Cys Thr Ile Ile Pro Leu Ser Phe Cys Val His Arg
1               5                   10                  15
Leu Arg Ala Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro
            20                  25                  30
Asp Leu Pro Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser
            35                  40                  45
Glu Glu Leu Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Asp Ser Ser
        50                  55                  60
Ala Glu Tyr Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val
65                  70                  75                  80
Ile Leu Glu Gly Gln Tyr Phe Thr Gln Val Trp Thr His Lys Ala Asn
                85                  90                  95
Ile His Glu Ala *
            100
```

```
<210> 1628
<211> 71
<212> PRT
<213> Homo sapiens
```

```
<400> 1628
Met Ile Phe Tyr Val Ile Leu Ser Ser Pro Ser Ser Arg Thr Phe Phe
1               5                   10                  15
Lys Ile Thr Leu Ile Met Ser Leu Gly Leu Ile Ser Lys Leu Leu Ile
            20                  25                  30
Thr Ser Cys Thr Phe Asp Thr Val Thr Phe Met Met Leu Thr Asn Ile
            35                  40                  45
Thr Lys Met Lys Ile Ser Ser Gly Lys Ala Thr Gln Ser Gln Glu Phe
        50                  55                  60
Phe Ser Glu Leu Ile Leu Tyr
65                  70  71
```

```
<210> 1629
<211> 112
<212> PRT
<213> Homo sapiens
```

```
<400> 1629
Met Ala His Tyr Lys Thr Glu Gln Asp Asp Trp Leu Ile Ile Tyr Leu
1               5                   10                  15
Lys Tyr Leu Leu Phe Val Phe Asn Phe Phe Phe Trp Val Gly Gly Ala
            20                  25                  30
Ala Val Leu Ala Val Gly Ile Trp Thr Leu Val Glu Lys Ser Gly Tyr
            35                  40                  45
Leu Ser Val Leu Ala Ser Ser Thr Phe Ala Ala Ser Ala Tyr Ile Leu
        50                  55                  60
Ile Phe Ala Gly Val Leu Val Met Val Thr Gly Phe Leu Gly Phe Gly
65                  70                  75                  80
Ala Ile Leu Trp Glu Arg Lys Gly Cys Leu Ser Thr Tyr Phe Cys Leu
                85                  90                  95
Leu Leu Val Ile Phe Leu Asp Glu Leu Glu Ala Gly Val Leu Ala His
            100                 105                 110     112
```

<210> 1630
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1630
Met Trp Pro Gln Leu Leu Lys Ser Phe Phe Leu Ile Pro Thr Gln Ile
1   5   10   15
His Phe Asn Leu Thr Asn Leu Pro Ser Trp Arg Arg Arg Glu Leu Arg
            20   25   30
Arg Phe Val Trp Val Ser Met Pro Glu Leu Ile Gly Ala Ser *
        35   40   45 46

<210> 1631
<211> 79
<212> PRT
<213> Homo sapiens

<400> 1631
Met Tyr Met Trp Ser Gly Leu Leu Gly Ser Lys Trp Thr Leu Val Tyr
1   5   10   15
Ser His Phe Leu Asn Met Ala Pro Ala Ser Phe Ser His Tyr Gln Ala
            20   25   30
Ser Leu Pro Leu Leu Glu His Asp Thr Leu Ser Ser Ser Arg Val His
        35   40   45
Ser Tyr Gln Cys Pro Gly Phe Phe Cys Phe Phe Pro Ser Val Leu Glu
        50   55   60
Phe Ser Gln Leu Gln Lys Thr Tyr Ser Leu Cys Leu Pro Phe *
65   70   75   78

<210> 1632
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1632
Met Phe Met Cys Arg Leu Leu Leu Trp Ala Thr Gly Ala Tyr Gly Phe
1   5   10   15
Leu Gly Asp Asp Val Glu Tyr Thr Ser Val Leu Pro His Gln Lys Gly
            20   25   30
Lys Glu Ala Trp Val Phe Ile Cys Gln Leu Pro Phe Ile Ile Gly *
        35   40   45   47

<210> 1633
<211> 58
<212> PRT

919

<213> Homo sapiens

<400> 1633
Met Cys Leu Arg Arg Thr Leu Leu Trp His Leu His Ile Ala Pro Leu
1   5   10   15
Val Asn Ile Leu Ser Asp Tyr Lys Pro Leu Gly Arg Trp Asn His Ala
            20   25   30
Pro Ala Leu Thr Ala Gly Ala Leu His Lys Thr Thr Ile Leu Leu Pro
        35   40   45
Gln Gly His Pro Lys Ala Ala Asn Pro *
    50   55   57

<210> 1634
<211> 55
<212> PRT
<213> Homo sapiens

<400> 1634
Met Leu Val Phe Asn Leu Ser Leu Val Leu Ser His Ser Val Leu Glu
1   5   10   15
Phe Val Met Phe Leu Tyr Ser Leu Asp Ser Ser His Val Cys Pro Leu
            20   25   30
Val Val Pro Val Thr Leu Asp Leu Ile Tyr Leu Val Tyr Leu Pro Cys
        35   40   45
Gln Ser Tyr Ile Leu Ile *
    50   54

<210> 1635
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1635
Met Ala Val Val Gln Ala Leu Thr Pro Leu Val Ser Ala Ala Ala Thr
1   5   10   15
Ala Ser Cys Leu Thr Ser Cys Ser Trp Ser Leu Thr Phe Pro Glu His
            20   25   30
Ser Val Asn Tyr Gln Ser His Pro Ser Glu Thr Gln Pro Tyr Leu Leu
        35   40   45
Arg Ser Thr Lys Glu Lys His His His Trp Leu Thr Ala Lys Ala Thr
    50   55   60
Cys Pro Ala Ala Gly Ala Glu Gly Leu Pro Ser Arg Gly *
65   70   75   77

<210> 1636
<211> 51
<212> PRT
<213> Homo sapiens

```
<400> 1636
Met Phe Cys Ser Phe Pro Leu Leu Ile Leu Gln Val Tyr Pro Thr Trp
1               5                   10                  15
Lys Asn Pro Asn Trp His Leu Thr Phe His Thr Ser Val Phe Ser Phe
            20                  25                  30
Pro Lys Gly Val Arg Ser Leu Ala Arg Gly Ile Pro Asp His Leu His
        35                  40                  45
Ser Ala  *
    50
```

```
<210> 1637
<211> 123
<212> PRT
<213> Homo sapiens
```

```
<400> 1637
Met Gln Gln Met Met Trp Ala Gly Leu Leu Cys Pro Gln Leu Glu Trp
1               5                   10                  15
Leu Gln Gly Arg Ala Cys Arg Pro Cys Gly Leu Leu Ala Ser Asp Ala
            20                  25                  30
Ala Ala Leu Trp Phe Arg Gly Gly Ile Ser Ala Trp Glu Asp Ser Cys
        35                  40                  45
Ala Val Ser Asn Ile Arg His Glu Ala Tyr Asn Cys His Leu Ser Val
    50                  55                  60
Phe Leu Asn Arg Cys Ala Asn Glu Leu Thr Val Gln Phe Leu Ile Ile
65                  70                  75                  80
Leu Ala Phe Gln Ile Met Leu Ser Cys Ala Val Ile Ala Pro Ala Val
                85                  90                  95
Pro Val Phe Gln Arg Leu Thr Leu Lys Arg Ser Gly Arg Thr Ser Leu
                100                 105                 110
Gly Ser Thr Gly Arg Leu His Phe Cys Lys  *
        115                 120     122
```

```
<210> 1638
<211> 69
<212> PRT
<213> Homo sapiens
```

```
<400> 1638
Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
1               5                   10                  15
Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
            20                  25                  30
Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln
        35                  40                  45
Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val
    50                  55                  60
Ser Lys Tyr Phe  *
65              68
```

```
<210> 1639
```

```
<211> 92
<212> PRT
<213> Homo sapiens


<400> 1639
Met Tyr Val Ala Gly Tyr Leu Val Ala Asn Ser Ala Ile Cys Gln Leu
1               5                   10                  15
Thr Gln His Ser Leu Val Lys Leu Leu Leu Gln Gly Cys Phe Leu Ile
            20                  25                  30
Gly Ser Leu His Leu Cys Ile Cys Val Pro Met Cys Val Cys Val Cys
        35                  40                  45
Glu Tyr Arg Ile Leu His Asp Ser Lys Ile Ser Phe Lys Tyr Leu Arg
    50                  55                  60
Phe Thr Ile Leu Lys Arg Glu Asn Lys Asn Lys Val Leu Gln Lys Leu
65                  70                  75                  80
Lys Lys Asn Leu Lys Ser Val His Thr Leu Ser   *
                85                  90  91
```

```
<210> 1640
<211> 58
<212> PRT
<213> Homo sapiens


<400> 1640
Met Thr Ala Trp Phe Cys Ser Phe Leu Ser Ser His Trp Val Ile Lys
1               5                   10                  15
Leu Pro Arg Phe Leu Leu Leu Val Leu Pro Phe Phe Trp Gly Lys Lys
            20                  25                  30
Phe Ser Leu Gly Leu Ile Ser Gln Phe Phe Ser Lys Ala Tyr Phe Tyr
        35                  40                  45
Ser Ser Tyr His Asn Tyr Ile His Thr   *
    50                  55      57
```

```
<210> 1641
<211> 459
<212> PRT
<213> Homo sapiens


<400> 1641
Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Phe Lys
1               5                   10                  15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
            20                  25                  30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
        35                  40                  45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
    50                  55                  60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
65                  70                  75                  80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
                85                  90                  95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
```

922

```
                  100                     105                  110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
            115                     120                  125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
      130                     135                  140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
145                     150                  155                  160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
                  165                     170                  175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
            180                     185                  190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
            195                     200                  .   205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
      210                     215                  220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
225                     230                  235                  240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
                  245                     250                  255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
            260                     265                  270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
            275                     280                  285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
      290                     295                  300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu
305                     310                  315                  320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
            325                     330                  335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
            340                     345                  350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
      355                     360                  365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
      370                     375                  380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385                     390                  395                  400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
            405                     410                  415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
            420                     425                  430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
      435                     440                  445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala  *
      450                     455             458
```

```
      <210> 1642
      <211> 144
      <212> PRT
      <213> Homo sapiens


      <400> 1642
Met Ala Arg Cys Thr Leu Thr Leu Leu Lys Thr Met Leu Thr Glu Leu
1                 5                    10                   15
Leu Arg Gly Gly Ser Phe Glu Phe Lys Asp Met Arg Val Pro Ser Ala
                  20                    25                   30
```

```
Leu Val Thr Leu His Met Leu Leu Cys Ser Ile Pro Leu Ser Gly Arg
        35                      40                  45
Leu Asp Ser Asp Glu Gln Lys Ile Gln Asn Asp Ile Ile Asp Ile Leu
    50                      55                  60
Leu Thr Phe Thr Gln Gly Val Asn Glu Lys Leu Thr Ile Ser Glu Glu
65                  70                  75                      80
Thr Leu Ala Asn Asn Thr Trp Ser Leu Met Leu Lys Glu Val Leu Ser
                85                  90                      95
Ser Ile Leu Lys Val Pro Glu Gly Phe Phe Ser Gly Leu Ile Leu Leu
            100             105                 110
Ser Glu Leu Leu Pro Leu Pro Leu Pro Met Gln Thr Thr Gln Val Ser
        115                 120                 125
Leu Pro Tyr Asn Met His Leu Ile Asn Asp Cys Ser Asn Thr Phe  *
    130                 135                 140             143
```

```
<210> 1643
<211> 70
<212> PRT
<213> Homo sapiens
```

```
<400> 1643
Met Gly Arg Arg Trp Leu Phe Leu Ile Ala Cys Leu Arg Ser Ala Ser
1               5                   10                  15
Ile Leu Ala Trp Ala Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Lys
            20                  25                  30
Lys Leu Ala Ser His Asp Gly Pro His Leu Ala Val Pro Ala Ile Arg
        35                  40                  45
Glu Ala Glu Ala Gly Arg Trp Leu Lys Pro Arg Arg Arg Arg Leu Gln
    50                  55                  60
Arg Pro Lys Ile Ala Arg
65                  70
```

```
<210> 1644
<211> 82
<212> PRT
<213> Homo sapiens
```

```
<400> 1644
Met Gly Met Gly Thr Leu Ile Ile Met Asn Val Trp Val Leu Phe Ile
1               5                   10                  15
Pro Thr Arg Leu Arg Ile Asp Gln Gln Pro Val His Ile Lys Pro Ser
            20                  25                  30
Met Arg Val Leu Asp Lys Trp Val Ser Ala Phe Val His Lys Gly Phe
        35                  40                  45
Thr Trp Gly Thr Ser Glu Arg Ile Asn Thr Gly Ser Ser Ser Asp Ile
    50                  55                  60
Thr Leu Gly Ile Leu Asn Lys Cys Gly Trp Ala Val Phe Cys Ala Ala
65          70                  75                      80
Pro  *
81
```

924

```
<210> 1645
<211> 256
<212> PRT
<213> Homo sapiens


<400> 1645
Met Ala Ala Leu Thr Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala
1               5                   10                  15
Leu Ala Gly Asp Thr Gln Pro Arg Phe Leu Trp Gln Gly Lys Tyr Lys
                20                  25                  30
Cys His Phe Phe Asn Gly Thr Glu Arg Val Gln Phe Leu Glu Arg Leu
            35                  40                  45
Phe Tyr Asn Gln Glu Glu Phe Val Arg Phe Asp Ser Asp Val Gly Glu
        50                  55                  60
Tyr Arg Ala Val Thr Glu Leu Gly Arg Pro Val Ala Glu Ser Trp Asn
65                  70                  75                  80
Ser Gln Lys Asp Ile Leu Glu Asp Arg Arg Gly Gln Val Asp Thr Val
                85                  90                  95
Cys Arg His Asn Tyr Gly Val Gly Glu Ser Phe Thr Val Gln Arg Arg
                100                 105                 110
Val His Pro Glu Val Thr Val Tyr Pro Ala Lys Thr Gln Pro Leu Gln
            115                 120                 125
His His Asn Leu Leu Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser
        130                 135                 140
Ile Glu Val Arg Trp Phe Arg Asn Gly Gln Glu Glu Lys Ala Gly Val
145                 150                 155                 160
Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp Thr Phe Gln Thr Leu
                165                 170                 175
Val Met Leu Glu Thr Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln
                180                 185                 190
Val Glu His Pro Ser Val Met Ser Pro Leu Thr Val Glu Trp Arg Ala
            195                 200                 205
Arg Ser Glu Ser Ala Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe
        210                 215                 220
Val Leu Gly Leu Leu Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg
225                 230                 235                 240
Asn Gln Lys Gly His Ser Gly Leu Gln Pro Thr Gly Phe Leu Ser *
                245                 250                 255


<210> 1646
<211> 263
<212> PRT
<213> Homo sapiens


<400> 1646
Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu
1               5                   10                  15
Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
                20                  25                  30
Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His
            35                  40                  45
Thr Thr Thr Thr Thr Thr Asn Arg Pro Gly Thr Thr Arg Ala Pro Ala
        50                  55                  60
Lys Pro Pro Gly Ser Gly Leu Asp Leu Ala Asp Ala Leu Asp Asp Gln
65                  70                  75                  80
```

```
Asp Asp Gly Arg Arg Lys Pro Gly Ile Gly Gly Arg Glu Arg Trp Asn
              85                  90                      95
His Val Thr Thr Thr Thr Lys Arg Pro Val Thr Thr Arg Ala Pro Ala
              100                 105                     110
Asn Thr Leu Gly Asn Asp Phe Asp Leu Ala Asp Ala Leu Asp Asp Arg
              115                 120                     125
Asn Asp Arg Asp Asp Gly Arg Arg Lys Pro Ile Ala Gly Gly Gly Gly
         130                 135                 140
Phe Ser Asp Lys Asp Leu Glu Asp Ile Val Gly Gly Gly Glu Tyr Lys
145              150                 155                     160
Pro Asp Lys Gly Lys Gly Asp Gly Arg Tyr Gly Ser Asn Asp Asp Pro
              165                 170                     175
Gly Ser Gly Met Val Ala Glu Pro Gly Thr Ile Ala Gly Val Ala Ser
              180                 185                     190
Ala Leu Ala Met Ala Leu Ile Gly Ala Val Ser Ser Tyr Ile Ser Tyr
              195                 200                     205
Gln Gln Lys Lys Phe Cys Phe Ser Ile Gln Gln Gly Leu Asn Ala Asp
         210                 215                 220
Tyr Val Lys Gly Glu Asn Leu Glu Ala Val Val Cys Glu Glu Pro Gln
225              230                 235                     240
Val Lys Tyr Ser Thr Leu His Thr Gln Ser Ala Glu Pro Pro Pro Pro
              245                 250                     255
Pro Glu Pro Ala Arg Ile  *
              260     262
```

```
        <210> 1647
        <211> 74
        <212> PRT
        <213> Homo sapiens


        <400> 1647
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
1               5                   10                      15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
              20                  25                      30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
         35                  40                  45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
    50                  55                  60
Lys Tyr Gly Arg Arg Glu Arg Lys Ala  *
65                  70          73
```

```
        <210> 1648
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 1648
Met Gly Leu Cys Gly Met Trp Val Leu Thr Ala Phe Leu Cys Glu Pro
1               5                   10                      15
Met Gly Phe Arg His Arg Val Cys Pro His Arg Cys Val Arg Gly Ser
              20                  25                      30
Gly Arg Gly Ser Gly Cys Glu Cys Val Thr Met Trp Pro Cys Gly Ile
```

926

```
            35                    40                    45
Asn Ala Met Thr Gly Gly Phe Trp Val  *
        50                  55      57
```

```
        <210> 1649
        <211> 90
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1649
Met Gly Val Leu Leu Val Ser Met Val Val Leu Phe Ile Phe Ala Ile
1               5                   10                  15
Leu Cys Ile Phe Ile Arg Asn Arg Ile Leu Glu Ile Val Tyr Ala Ser
            20                  25                  30
Leu Gly Ala Leu Leu Phe Thr Cys Phe Leu Ala Val Asp Thr Gln Leu
        35                  40                  45
Leu Leu Gly Asn Lys Gln Leu Ser Leu Ser Pro Glu Glu Tyr Val Phe
    50                  55                  60
Ala Ala Leu Asn Leu Tyr Thr Asp Ile Ile Asn Ile Phe Leu Tyr Ile
65                  70                  75                  80
Leu Thr Ile Ile Gly Arg Ala Lys Glu  *
                85          89
```

```
        <210> 1650
        <211> 113
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1650
Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met
1               5                   10                  15
Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr
            20                  25                  30
Ala Gln Gln Gly Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile
        35                  40                  45
Glu Gly Pro Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His
    50                  55                  60
Asn Ser Tyr Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu
65                  70                  75                  80
Lys Ala Ile Cys Arg Cys Phe Thr Gly Tyr Thr Gly Glu Arg Cys Leu
                85                  90                  95
Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
                100                 105                 110 112
    *
```

```
        <210> 1651
        <211> 50
        <212> PRT
        <213> Homo sapiens
```

927

<400> 1651
Met Phe Ile Lys Phe Leu Arg Ile Leu Ile Ser Leu Gln Cys Ser Ser
1   5   10   15
Phe Lys Phe Thr Val Thr Ala Lys Val Leu Phe Met Thr Tyr Lys Lys
                20   25   30
Arg Ala Gln Ser Asp Phe Phe Leu Val Phe Val Asp Arg Glu Arg Ser
            35   40   45
Pro *
49

<210> 1652
<211> 121
<212> PRT
<213> Homo sapiens

<400> 1652
Met Ser Arg Ala Gly Met Leu Gly Val Val Cys Ala Leu Leu Val Trp
1   5   10   15
Ala Tyr Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu
                20   25   30
Leu Cys Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg
            35   40   45
Ser Arg Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro
        50   55   60
Phe Leu Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His
65   70   75   80
Leu Phe Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro
                85   90   95
His Tyr Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu
            100   105   110
Val Ser Phe Cys Pro Thr Thr Val *
        115   120

<210> 1653
<211> 111
<212> PRT
<213> Homo sapiens

<400> 1653
Met Trp Ser Leu Trp Ile Trp Val Asp Gln His Gln Ala Arg Leu Ile
1   5   10   15
Pro Ser Pro Gln Val Leu Leu Leu Leu Leu Arg Glu Thr Pro Ser Thr
                20   25   30
Ala Ala Ala Val Ala Gly Trp Leu Val Val Ala Ser Met Ala Leu Leu
            35   40   45
Gln Leu His Ala Val Gly Gly Val Ala Leu Thr Ser Ser His Pro Phe
        50   55   60
Met Trp Ala Thr Gly Glu Glu Leu Arg Lys Pro Pro Trp Gln Gly Ser
65   70   75   80
Ala Gly Ser Ala Ser Gly Val Glu Glu Leu Thr Gly Lys His Ser Cys
                85   90   95
Pro Gly Pro Glu Glu Pro Ala Thr Val Gln Lys Ala Pro Ala *

100   105   110

<210> 1654
<211> 150
<212> PRT
<213> Homo sapiens

<400> 1654
Met Trp Ile Cys Arg Val Lys Gln Ala Trp Leu Pro Pro Leu Leu Ser
1   5   10   15
Pro Leu Gly Pro Pro Thr Pro Trp Asp Pro Phe Tyr Ala Ala Pro Ser
            20   25   30
Pro Pro Val Trp Val Gly Ser Gly Tyr Trp Tyr Arg Gly Leu Leu Ser
            35   40   45
Pro Pro Asp Gly Gly Gln Gly Ser Phe Pro Pro His Leu Cys Pro Gln
        50   55   60
Cys Pro Val Gln Ala Gln Ala Gln Ile Gly Pro Tyr Phe Arg Glu Leu
65   70   75   80
Gly Glu Pro Pro Ser Glu Thr Lys Trp Tyr Leu Asn Ser His Ser His
                85   90   95
His Arg Ala Ala Gly Thr Gln Arg Arg Leu Arg Cys Leu Gln His Leu
            100   105   110
Leu Gly Gly Gly Gly Pro Gly Ile Gly Ser Glu Ser Pro Asn Glu Gly
            115   120   125
Pro Gly Gln Val Thr His Ala Cys Asn Leu Ser Thr Leu Gly Gly Lys
        130   135   140
Asp Val Arg Ile Thr   *
145   149

<210> 1655
<211> 68
<212> PRT
<213> Homo sapiens

<400> 1655
Met Ser Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe Ile Ser
1   5   10   15
Leu Ile Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu Met Arg
            20   25   30
Leu Glu Glu Tyr Lys Lys Glu Gln Ala Ile Asn Arg Ala Gly Ile Val
            35   40   45
Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp Pro Phe
        50   55   60
Gly Arg Lys   *
65   67

<210> 1656
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1656
Met His Lys Tyr Leu Cys Val Phe Glu Tyr Leu Ser Asn Leu Ser Lys
1   5   10   15
Cys Met Arg Leu Tyr Leu Ile Leu Leu Ala Ser Ile Cys Met Tyr Leu
                20   25   30
Cys Val Ala Arg Arg Val Phe Leu Phe Ala Ser Val Ser Thr Gln Gly
            35   40   45
Lys Ser Leu Met Tyr Ser Thr Gln Lys Val Val Lys *
    50   55   60

<210> 1657
<211> 80
<212> PRT
<213> Homo sapiens

<400> 1657
Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe Ala Val Ser Gly
1   5   10   15
Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val
                20   25   30
Asp Arg Leu Val Met Gly Cys Gly Lys Tyr Ser Trp Lys Val Ser Ser
            35   40   45
Ser Thr Thr Thr Ser Thr Thr Gly Leu Arg Trp Thr Ser Thr Ser Thr
    50   55   60
His Ser Cys Cys Met Leu Cys Ser Glu Gly Val Leu Val Ser Pro *
65   70   75   79

<210> 1658
<211> 160
<212> PRT
<213> Homo sapiens

<400> 1658
Met Ala Phe Leu Leu Tyr His Leu Val Tyr His Ile Pro Pro Met Ala
1   5   10   15
Pro Val Ser Phe Val Phe Glu Thr Lys Ser Arg Ser Ala Ala Gln Ala
                20   25   30
Gly Val Gln Trp His Asp Pro Gly Ser Pro Gln Pro Leu Pro Pro Arg
            35   40   45
Phe Lys Arg Phe Ser Cys His Gly Leu Asn Ile Lys Phe Ala Phe Phe
    50   55   60
Ser His Leu Lys Glu Leu His Leu Asp Ser Gly His Cys Phe Ile Phe
65   70   75   80
Ile Arg Leu Val Lys Gly Ala Val Cys Leu Ile His Val Gln Ile Arg
                85   90   95
Ile Pro Ser Ala Asp Glu Asp Ile Thr Ile Leu Phe Phe Ile Val Ser
            100   105   110
Lys His Phe Leu Glu Ser Val Phe Lys Met Leu Gln Trp Ser Gln Met
    115   120   125
Thr Leu Ala Thr Val Lys Thr Thr Phe Ile Gly Leu Asn Glu Phe Ile
    130   135   140
Cys Ser Pro Ser Thr Leu Pro Ser Gly Lys Lys Asn Gly Leu Ile *

145   150   155   159

    <210> 1659
    <211> 90
    <212> PRT
    <213> Homo sapiens

    <400> 1659
Met Trp Arg Leu Pro His Ser Gln Phe Ile His Ile Val Ile Leu Pro
1   5   10   15
Leu Lys Val Phe Leu Phe Leu Phe Cys Phe Leu Arg Trp Ser Phe Ser
            20   25   30
Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln
        35   40   45
Pro Pro Pro Pro Arg Leu Lys Arg Phe Phe Cys Leu Ser Leu Pro Ser
    50   55   60
Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala Asn Phe Tyr Thr
65   70   75   80
Phe Gly Arg Asp Gly Val Ser Pro Cys *
            85   89

    <210> 1660
    <211> 56
    <212> PRT
    <213> Homo sapiens

    <400> 1660
Met Cys Ala His Leu Val Cys Val Lys Trp Cys Leu Val Ile Leu Ile
1   5   10   15
Cys Ile Phe Gln Asn Thr Asn Glu Val Glu Gln Leu Ile Leu Cys Val
            20   25   30
Leu Leu Ile Pro Leu Ser Ser Ser Met Thr Asp Leu Phe Leu Ser Leu
        35   40   45
Cys Val Cys Val Phe Cys Tyr *
    50   55

    <210> 1661
    <211> 74
    <212> PRT
    <213> Homo sapiens

    <400> 1661
Met Leu Gly Met Ile Ser Met Leu Leu Asn Ala Leu Lys Leu Leu Val
1   5   10   15
Tyr Leu Thr Glu Cys Cys Met Ala Leu Glu Glu Arg Val His Ser Val
            20   25   30
Leu Ile Gly Trp Ser Val Ser Phe Lys Arg Ile Gln Arg Gln Leu Asn
        35   40   45
Gln Val Gly Leu Ile Glu Phe Phe Lys Met Val Leu Cys Ser Asn Thr
    50   55   60

931

```
Asp Gly Thr Glu Gly His Tyr Pro Lys   *
65                  70          73
```

```
        <210> 1662
        <211> 271
        <212> PRT
        <213> Homo sapiens


        <400> 1662
Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
1               5               10                  15
Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
            20              25              30
Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
        35              40              45
Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
    50              55              60
Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
65              70              75                      80
Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
            85                  90                  95
Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
            100             105             110
Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
        115             120             125
Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
        130             135             140
His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
145             150             155             160
His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
                165             170             175
Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
                180             185             190
Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
            195             200             205
Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
    210             215             220
Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
225             230             235             240
Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
                245             250             255
Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser   *
                260             265             270


        <210> 1663
        <211> 53
        <212> PRT
        <213> Homo sapiens


        <400> 1663
Met Pro His Ile Gln Thr Leu Leu Arg Thr Leu Phe Ala Ser His Leu
1               5               10                  15
Leu Val Ser Leu Trp Gln Ser Glu Pro Met Ala Lys Pro Arg Met Arg
```

932

```
                   20                      25                      30
Lys Tyr Asn Thr Ser Ser Glu Tyr Leu Ser Glu Leu Asp Thr Glu Ala
               35                      40                      45
Ser Arg Val Ser  *
    50          52




        <210> 1664
        <211> 271
        <212> PRT
        <213> Homo sapiens



        <400> 1664
Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1               5                      10                      15
Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
               20                      25                      30
Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
               35                      40                      45
Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
    50                  55                      60
Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65                  70                      75                      80
Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
                   85                      90                      95
Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
               100                     105                     110
Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
               115                     120                     125
Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
               130                     135                     140
His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
145                     150                     155                     160
His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
                   165                     170                     175
Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
               180                     185                     190
Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
               195                     200                     205
Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
           210                     215                     220
Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
225                     230                     235                     240
Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
                   245                     250                     255
Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser  *
               260                     265                     270



        <210> 1665
        <211> 284
        <212> PRT
        <213> Homo sapiens


        <400> 1665
```

```
Met Asp Glu Lys Ser Asn Lys Leu Leu Leu Ala Leu Val Met Leu Phe
1               5                   10                  15
Leu Phe Ala Val Ile Val Leu Gln Tyr Val Cys Pro Gly Thr Glu Cys
            20                  25                  30
Gln Leu Leu Arg Leu Gln Ala Phe Ser Ser Pro Val Pro Asp Pro Tyr
        35                  40                  45
Arg Ser Glu Asp Glu Ser Ser Ala Arg Phe Val Pro Arg Tyr Asn Phe
    50                  55                  60
Thr Arg Gly Asp Leu Leu Arg Lys Val Asp Phe Asp Ile Lys Gly Asp
65                  70                  75                  80
Asp Leu Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe
                85                  90                  95
Gly Arg His Leu Val Arg Asn Ile Gln Leu Glu Gln Pro Cys Glu Cys
            100                 105                 110
Arg Val Gly Gln Lys Lys Cys Thr Cys His Arg Pro Gly Lys Arg Glu
            115                 120                 125
Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His
    130                 135                 140
Ala Asp Trp Thr Glu Leu Thr Ser Cys Val Pro Ser Val Gly Asp Gly
145                 150                 155                 160
Lys Arg Asp Ala Arg Leu Arg Pro Ser Arg Trp Arg Ile Phe His Ile
            165                 170                 175
Leu Tyr Ala Ala Cys Thr Asp Ile Arg Gly Ser Pro Asn Thr Asn Ala
            180                 185                 190
Gly Ala Asn Ser Pro Ser Phe Thr Lys Thr Arg Asn Thr Ser Lys Ser
            195                 200                 205
Trp Lys Asn Phe His Tyr Ile Thr Ile Leu Gln Asp Pro Gly Ala Arg
    210                 215                 220
Ser Leu Ser Glu Trp Arg Pro Val Leu Lys Arg Gly Thr Leu Glu Gly
225                 230                 235                 240
Leu Leu Ala Cys Trp Pro Trp Lys Ala Pro Pro Pro Leu Lys Lys Leu
            245                 250                 255
Ser Thr Trp Tyr Pro Gly Glu Glu Leu Val Trp Leu Ala Pro Leu Gln
            260                 265                 270
Lys Ile Ile Gly Leu Ala Leu Leu Ile Tyr Pro   *
    275                 280             283
```

```
        <210> 1666
        <211> 67
        <212> PRT
        <213> Homo sapiens


        <400> 1666
Met Thr Leu Val Leu Phe Leu Val Leu Ala Leu Met Ile Thr Ile Cys
1               5                   10                  15
Ile Leu Ser Tyr His Ser His Leu Leu Ile Asn Ser Asn Leu Ile Pro
            20                  25                  30
Val Lys Tyr Arg Asn Phe Pro Ser Ile Leu Leu His Phe Leu His Leu
        35                  40                  45
Trp Leu Ser Phe Cys His Ile Ser His Met His Ile Cys His Asn Leu
    50                  55                  60
Leu Ile   *
65   66
```

```
<210> 1667
<211> 79
<212> PRT
<213> Homo sapiens


<400> 1667
Met Asn Thr His Trp Asn Ile Leu Pro Val Glu Arg Ser Cys Pro Leu
1               5                   10                  15
Trp Ile Ser Ser Glu Leu Ser Tyr Cys Ser Ile Lys Leu Leu Phe Ile
            20                  25                  30
Leu Leu Thr Leu His Leu Pro Ala Tyr Leu Ile Leu Pro Gly His Lys
        35                  40                  45
Ile Arg Thr Gln Asp Leu Pro Asn Glu Ala Asn Arg Ala Val Thr Gln
    50                  55                  60
Thr Gly Leu Arg His Ala Leu Tyr Gln Ser Ile Ser Cys Trp  *
65                  70                  75      78



<210> 1668
<211> 54
<212> PRT
<213> Homo sapiens


<400> 1668
Met Trp Gly Leu Leu Ile Pro Cys Ile Leu Gly Cys Met Lys Leu Pro
1               5                   10                  15
His Asn Leu Leu Met Leu Phe Ser Leu Glu Thr Phe Leu Thr Leu Arg
            20                  25                  30
Phe Ile Leu Asp Ser Phe Tyr Ser Tyr Val Phe Lys Pro Thr Asn Lys
        35                  40                  45
Arg Phe Cys Asn Ile  *
50              53



<210> 1669
<211> 119
<212> PRT
<213> Homo sapiens


<400> 1669
Met Met Ala Gly Ile Arg Ala Leu Phe Met Tyr Leu Trp Leu Gln Leu
1               5                   10                  15
Asp Trp Val Ser Arg Gly Glu Ser Val Gly Leu His Leu Pro Thr Leu
            20                  25                  30
Ser Val Gln Glu Gly Asp Asn Ser Ile Ile Asn Cys Ala Tyr Ser Asn
        35                  40                  45
Ser Ala Ser Asp Tyr Phe Ile Trp Tyr Lys Gln Glu Ser Gly Lys Gly
    50                  55                  60
Pro Gln Phe Ile Ile Asp Ile Arg Ser Asn Met Asp Lys Arg Gln Gly
65                  70                  75                  80
Gln Arg Val Thr Val Leu Leu Asn Lys Thr Val Lys His Leu Ser Leu
            85                  90                  95
Gln Ile Ala Ala Thr Gln Pro Gly Asp Ser Ala Val Tyr Phe Cys Ala
            100                 105                 110
```

```
Glu Ile Pro Glu Gln Arg  *
        115         118
```

```
<210> 1670
<211> 116
<212> PRT
<213> Homo sapiens
```

```
<400> 1670
Met Cys Leu Leu Cys Cys Glu Cys Leu Phe His Leu Trp Lys Arg Ile
1               5                   10                  15
Asn Trp Trp Gln Gly Phe Cys Ser Phe Tyr Leu Leu Leu Trp Val Gly
            20              25                  30
Leu Leu Ser Phe Pro Pro Asp Pro Pro Trp Lys Ser Phe Thr Pro Ala
        35              40                  45
Ile Leu Phe Leu Ala Trp Gly Thr Gly Ser Ser Pro Gly Arg His Arg
    50              55                  60
Phe Ser Leu Pro Thr Asp Arg Arg Pro Ser Ala His Ser Pro Phe Leu
65              70                  75                  80
Ser Thr Leu Gln His Ser Ile Arg Thr Leu Phe His Ser Pro Ile Arg
            85                  90                  95
Ser Ser Arg Phe Ala Phe Val Ser Ser Leu His Ser Tyr Thr Ser Ile
            100             105             110
Pro Ser Leu Pro
        115 116
```

```
<210> 1671
<211> 70
<212> PRT
<213> Homo sapiens
```

```
<400> 1671
Met Ser His Cys Gly Leu Leu Phe Leu Val Val Thr Trp Leu Leu Ser
1               5                   10                  15
Phe Ile Phe Leu Val Cys Lys Met Arg Ile Thr Phe Leu Phe Cys Leu
            20              25                  30
Leu Thr Val Asp Met Lys Pro Asn Lys Val Leu Tyr Met Lys Cys Phe
        35              40                  45
Lys Cys Ile Ile Leu Leu Ser Cys Tyr Pro Leu Lys Phe Leu Val Ile
    50              55                  60
Arg Asn Phe Glu Ile  *
65              69
```

```
<210> 1672
<211> 263
<212> PRT
<213> Homo sapiens
```

```
<400> 1672
Met Arg Val Leu Cys Ala Phe Pro Glu Ala Met Pro Ser Ser Asn Ser
```

```
 1                   5                       10                      15
Arg Pro Pro Ala Cys Leu Ala Pro Gly Ala Leu Tyr Leu Ala Leu Leu
                20                      25                      30
Leu His Leu Ser Leu Ser Ser Gln Ala Gly Asp Arg Arg Pro Leu Pro
            35                      40                      45
Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
        50                      55                      60
Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
65                      70                      75                      80
Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
                85                      90                      95
Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
                100                     105                     110
Leu Arg Phe Gly Gly Lys Arg Thr Asp Phe Leu Gln Phe Gln Asn Leu
            115                     120                     125
Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
        130                     135                     140
Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
145                     150                     155                     160
Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Gly Met Leu Glu Pro
                165                     170                     175
Pro Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Leu Lys Glu Gln
                180                     185                     190
Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
            195                     200                     205
Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
        210                     215                     220
Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
225                     230                     235                     240
Ala Ser Leu Tyr Gly Pro Asn Ile Val Arg Pro Arg Lys Asn Val Ile
                245                     250                     255
Ala Leu Leu Asp Gly Leu   *
            260     262
```

```
        <210> 1673
        <211> 156
        <212> PRT
        <213> Homo sapiens


        <400> 1673
Met Lys Trp Lys Thr Gly Val Ala Ile Phe Val Val Val Val Val Tyr
 1                   5                       10                      15
Leu Val Thr Gly Gly Leu Val Phe Arg Ala Leu Glu Gln Pro Phe Glu
                20                      25                      30
Ser Ser Gln Lys Asn Thr Ile Ala Leu Glu Lys Ala Glu Phe Leu Arg
            35                      40                      45
Asp His Val Cys Val Ser Pro Gln Glu Leu Glu Thr Leu Ile Gln His
        50                      55                      60
Ala Leu Asp Ala Asp Asn Ala Gly Val Ser Pro Ile Gly Asn Ser Ser
65                      70                      75                      80
Asn Asn Ser Ser His Trp Asp Leu Gly Ser Ala Phe Phe Phe Ala Gly
                85                      90                      95
Thr Val Ile Thr Thr Ile Gly Tyr Gly Asn Ile Ala Pro Ser Thr Glu
                100                     105                     110
Gly Gly Lys Ile Phe Cys Ile Leu Tyr Ala Ile Phe Gly Phe Pro Leu
            115                     120                     125
```

937

```
Phe Gly Phe Leu Leu Ala Gly Ile Glu Asp Gln Leu Gly Thr Ile Phe
    130                     135                 140
Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe  *
145                 150                 155
```

```
<210> 1674
<211> 83
<212> PRT
<213> Homo sapiens
```

```
<400> 1674
Met Cys Cys Val Ile Cys Ser Lys Gln Tyr Val Leu Leu Ser Ile Leu
1                   5                   10                  15
Leu Cys Leu Leu Ala Ser Gly Ser Val Asp Phe Phe Leu Leu Pro His
            20                  25                  30
Ser Val Leu Ala Asp Asp Asp Gly Ile Lys Val Val Lys Val Thr Phe
        35                  40                  45
Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile Met Val Ser Leu Thr
    50                  55                  60
Val Ser Phe Pro Gly Leu Cys Thr Cys Gln Ala Gly Thr Gln Asp Thr
65                  70                  75                  80
Tyr Thr  *
    82
```

```
<210> 1675
<211> 54
<212> PRT
<213> Homo sapiens
```

```
<400> 1675
Met Val His Cys Leu Ile Cys Met Trp Thr Cys Trp Pro Thr Gly Ala
1                   5                   10                  15
Ile Leu His Arg Val Cys Arg Thr His Trp Pro Arg Gly Val Ser His
            20                  25                  30
Thr His Val Trp Met His Trp Pro Thr Cys Val Val Ser Arg Leu Phe
        35                  40                  45
Val Asp Val Leu Gly  *
    50          53
```

```
<210> 1676
<211> 119
<212> PRT
<213> Homo sapiens
```

```
<400> 1676
Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Leu Gly Ile
1                   5                   10                  15
Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
            20                  25                  30
Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile Ser Gly
```

938

```
               35                      40                      45
Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
        50                      55                      60
Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
65                      70                      75                      80
Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
                85                      90                      95
Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro His Val Ala Lys Glu
            100                     105                     110
Ala Leu Asp Cys Tyr Gly  *
        115             118
```

```
        <210> 1677
        <211> 49
        <212> PRT
        <213> Homo sapiens


        <400> 1677
Met Arg Tyr Lys Cys Val Leu Ser Lys Ile Leu Trp Phe Cys Pro Trp
1               5               10                      15
Lys Tyr Val Trp Lys Asn Ser Phe Phe Asn Leu Glu Gly Met Phe Met
            20                      25                      30
Phe Ile Glu Val Thr Cys Arg His Tyr Ser Thr Cys Gly Ile Phe Lys
        35                      40                      45              48
 *
```

```
        <210> 1678
        <211> 127
        <212> PRT
        <213> Homo sapiens


        <400> 1678
Met Gln Thr Lys Gly Gly Gln Thr Trp Ala Arg Arg Ala Leu Leu Leu
1               5               10                      15
Gly Ile Leu Trp Ala Thr Ala His Leu Pro Leu Ser Gly Thr Ser Leu
            20                      25                      30
Pro Gln Arg Leu Pro Arg Ala Thr Gly Asn Ser Thr Gln Cys Val Ile
        35                      40                      45
Ser Pro Ser Ser Glu Phe Pro Glu Gly Phe Phe Thr Arg Gln Glu Arg
    50                      55                      60
Arg Asp Gly Gly Ile Ile Ile Tyr Phe Leu Ile Ile Val Tyr Met Phe
65                      70                      75                      80
Met Ala Ile Ser Ile Val Cys Asp Glu Tyr Phe Leu Pro Ser Leu Glu
                85                      90                      95
Ile Ile Ser Glu Tyr Ile Gly Asn Lys Lys Glu Met Gln Val Leu Ile
            100                     105                     110
Pro Gly Arg Ile Val Ser Lys Leu Lys Lys Leu Gly Phe Lys  *
        115                     120                     125 126
```

```
        <210> 1679
```

<210> 49
<212> PRT
<213> Homo sapiens

<400> 1679

Met	Ile	Phe	Phe	Ile	Lys	Ala	Pro	Leu	Tyr	Leu	Leu	Gln	Ser	Met	Met
1				5					10					15	
Asp	Cys	Leu	Tyr	Ala	Arg	Arg	Ile	Pro	Cys	Ile	Thr	Asp	Cys	Ala	Met
			20					25					30		
Ala	Glu	Ile	Glu	Lys	Leu	Gly	Gln	Lys	Tyr	Pro	Val	Ala	Leu	Arg	Ile
			35					40					45		
Ala															
49															

<210> 1680
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1680

Met	Val	Tyr	Glu	Val	Phe	Ile	Asn	Lys	Ala	Asn	Ile	Leu	Leu	Leu	Leu
1				5					10					15	
Phe	Leu	Arg	Gln	Ser	Leu	Ala	Val	Leu	Pro	Arg	Leu	Glu	Cys	Ser	Gly
			20					25					30		
Ala	Ile	Ser	Ala	Arg	Cys	Asn	Leu	His	Leu	Arg	Ile	Pro	Pro	Asp	Phe
			35					40					45		
His	Arg	Ser	Thr	Met	Gly	Gly	Gly	Gly	Gly						
	50					55			58						

<210> 1681
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1681

Met	Leu	Ser	Gly	Trp	Val	Gln	Cys	Pro	Leu	Leu	Gln	Arg	Val	His	Phe
1				5					10					15	
Tyr	Ala	Phe	Ser	Val	Gly	Pro	Phe	His	Arg	Lys	Ile	Trp	Gly	Asp	Val
			20					25					30		
Ser	Phe	Pro	Leu	Thr	Phe	Tyr	Phe	Lys	Asn	Leu	Gln	Thr	Gln	Lys	Ser
			35					40					45		48
*															

<210> 1682
<211> 78
<212> PRT
<213> Homo sapiens

```
        <400> 1682
Met Thr Gly Leu Phe Leu His His Asn Pro Gly Ile Leu Leu Ala Pro
1               5                   10                  15
Ser Val Leu Asp Leu Leu Phe Pro Gly Ser His Ile Phe Ile Phe Ser
            20                  25                  30
Leu Phe Leu Ser Leu Cys Pro Cys Phe Gly Asp Thr Ile Leu Val Ala
            35                  40                  45
Pro Ser Asp Lys Val Tyr Lys Asp Thr Phe Ile Ile Lys Ile Tyr Pro
    50                  55                  60
Tyr Cys Ile Phe Glu Asn Phe Phe Thr Phe Leu Phe Thr   *
65                  70                  75      77
```

```
        <210> 1683
        <211> 52
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1683
Met Ser Leu Gly Ser Ile Asn His Phe Leu Phe Phe Ile Gln Leu Leu
1               5                   10                  15
Val Leu Lys Asn Ser Tyr Cys Met Leu Leu Lys Met Lys Gln Asn Lys
            20                  25                  30
Lys Leu Lys Lys Ile Met Cys Leu Leu Phe Leu Met Leu Ser Ser Tyr
            35                  40                  45
His Leu Ile   *
    50  51
```

```
        <210> 1684
        <211> 165
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1684
Met Pro Ala Pro Pro Leu Pro Gly Gly Trp Asn Thr Trp Gly Pro Ser
1               5                   10                  15
Leu Ser Leu Pro Leu Leu Leu Leu Gly Ala Val Ala Met Ala Leu Gly
            20                  25                  30
Val Arg Pro Pro Gly Gln Val Gly Leu Ser Pro Ile Ala Thr Ala Ser
            35                  40                  45
Thr Val Gly Val Pro Arg Cys Leu Gln Thr Ala Phe Arg Gly Asp Ala
    50                  55                  60
Gly Trp His Ser Cys Ala Gln Gln Gly Ala Cys Val Ala Leu His Pro
65                  70                  75                  80
Ser Glu Arg Arg Leu Gly Ile Ser Asp Glu Ala His Ser Arg Ser Arg
                85                  90                  95
Trp Gly Gly Glu Asp Ser Pro Ser Pro Leu Thr Gly Pro Pro Leu Ser
            100                 105                 110
Pro Ser Pro Pro Asp Cys Leu Ser Leu Pro Arg Leu Thr Pro Leu Arg
            115                 120                 125
Leu Pro Pro Pro Pro Phe Pro Phe Leu Gly Pro Ile Pro Ser Leu Pro
        130                 135                 140
Pro Pro Pro Ser Pro Pro Pro Gln Pro Pro Ala Thr Ala Pro Pro Pro
145                 150                 155                 160
```

941

Ser Leu Arg Phe   *
                  164

      <210> 1685
      <211> 153
      <212> PRT
      <213> Homo sapiens

      <400> 1685
Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe
1   5   10   15
Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
            20   25   30
Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
            35   40   45
Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
        50   55   60
Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Ala Gln Arg
65   70   75   80
Ala Gln His His Ala Glu Pro Glu Cys Asp Ala Gly Pro Gly Leu Arg
                85   90   95
Gly Pro Arg Leu Gly Ala Ala Leu Gln Ala Pro Ala Arg Glu Arg His
            100   105   110
Leu Gln Gln Arg Leu Arg His Leu His His Leu Gln Arg Pro Pro His
            115   120   125
Gln Gly Arg Gly Arg Leu Arg Ala Ser Gly Pro Pro Ser Arg Leu Glu
            130   135   140
Ser Ser Ala Asp Pro Ala Pro Ala   *
145   150   152

      <210> 1686
      <211> 141
      <212> PRT
      <213> Homo sapiens

      <400> 1686
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe Val
1   5   10   15
Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp Gly Ala
            20   25   30
Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu Thr Thr Phe
        35   40   45
Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala Ile Gln Val Pro
        50   55   60
Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu Leu Val Val Asp Thr
65   70   75   80
Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr Arg Ile Gln Val Gly Lys
                85   90   95
Asn Glu Pro Val Asp Pro Val Lys Leu Arg Gln Ser Ile Arg Thr Val
            100   105   110
Leu Phe Asn Gln Cys Met Ile Ser Phe Pro Met Gly Gly Leu Pro Leu
            115   120   125
Ser Leu Pro Gln Met Val Glu Arg Pro Leu Thr Pro   *

                              942

130   135   140


```
<210> 1687
<211> 61
<212> PRT
<213> Homo sapiens


<400> 1687
Met Leu Thr Glu Leu Leu Leu Leu Cys Val Leu Val Leu Cys Val Phe
1               5                   10                  15
Met Ser Arg Gly Ser Cys Leu Phe Ala Thr Ile Arg Glu Phe Trp Pro
            20                  25                  30
Pro Trp Val Gly Cys Gly Arg Gly Glu Asn Pro Ser Val Gly Thr Val
        35                  40                  45
Asp Pro Ser Cys Arg Leu Cys Ala Pro Gly His Val     *
    50                  55                  60



<210> 1688
<211> 68
<212> PRT
<213> Homo sapiens


<400> 1688
Met Val Ala Ala Thr Pro Pro Gly Ile Ala Arg Trp Ala Leu Val Ile
1               5                   10                  15
Ser Phe Pro Pro Val Thr Pro Thr Ala Pro His Met Cys Ala Ala Gln
            20                  25                  30
Pro Trp Gly Arg His Gly Ser Ala Glu Gly Thr Thr Gln Leu Pro Ala
        35                  40                  45
Pro Arg Ser Ser Pro Ser Cys Gln Ser Trp Asp Lys Leu Leu Leu Leu
    50                  55                  60
Leu Leu Glu     *
65          67



<210> 1689
<211> 74
<212> PRT
<213> Homo sapiens


<400> 1689
Met Ala Ala Thr Met Val Ser Ile Ala Ser Phe Arg Leu Phe Leu Met
1               5                   10                  15
Ser Cys Thr Leu Val Ala Phe Ser Pro Ser Leu Leu Leu Leu Ala Ala
            20                  25                  30
Cys Gly Ser Ser Ser Pro Pro Ser Pro Leu Asn Pro Leu Thr Cys Arg
        35                  40                  45
Ile Leu Ile Cys Phe Thr Met Val Leu Leu Pro Asp Ser Pro Ala Pro
    50                  55                  60
Ser Ser Ser Arg Arg Cys Val Ala Arg     *
65              70          73
```

943

```
        <210> 1690
        <211> 114
        <212> PRT
        <213> Homo sapiens


        <400> 1690
Met His Met Cys Ala Phe Leu His Val Trp Thr Cys Ala Cys Met His
1               5                   10                      15
Leu Cys Val Cys Val Cys Ala Glu Thr Gly Lys Gly Val Lys Val Leu
            20                  25                  30
Val Arg Glu Pro Gly Ser Phe Leu Phe Pro Asn Leu Ser Cys Ser Lys
        35                  40                  45
Glu Gly Trp Gly Trp Gly Gln Pro Leu Leu Lys Val Ile Gly Glu Glu
    50                  55                  60
Arg Phe Ser Asp Ser Glu Val Thr Ala Ser Val Ala Gln Ala Val Ser
65                  70                  75                      80
Leu Val Thr Val Ile Leu Gln Phe Ser Asp Pro His Val Ser Phe Arg
                85                  90                  95
Gly Lys Arg Lys Lys Gly Thr Leu Trp Trp Val Leu Gly Gly Lys Arg
            100                 105                 110
Lys *
113
```

```
        <210> 1691
        <211> 69
        <212> PRT
        <213> Homo sapiens


        <400> 1691
Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
1               5                   10                      15
His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
            20                  25                  30
Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
        35                  40                  45
Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
    50                  55                  60
Leu Met Pro Val Ser
65                  69
```

```
        <210> 1692
        <211> 103
        <212> PRT
        <213> Homo sapiens


        <400> 1692
Met Leu Gly Pro Thr Val Phe Asn Ile Lys Phe Val Phe Leu Ile Thr
1               5                   10                      15
Ala Leu Gly Ala Leu Pro Ser Ser Leu Pro His Ala His Ser Ala Ala
```

944

```
              20                    25                    30
Trp Thr Leu Leu Pro Gly Pro Pro Ala Gln Gln His Ser Thr Arg Leu
          35                    40                    45
Trp Thr Phe Ser Asn Met Ala Gly Val Glu Leu Cys Pro Gly Pro Gln
      50                    55                    60
Pro Ala Gly Pro Ala Ala Pro Val Gly Arg Thr Pro Pro Val Leu Ser
65                    70                    75                    80
Ala Phe Thr Thr Thr Ser Ser Phe Gly Ser Gly Cys Gly Val Thr Ser
                  85                    90                    95
Ser Arg Glu Leu Pro Arg Arg
              100       103
```

```
     <210> 1693
     <211> 48
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1693
Met Gly Arg Phe Leu Asp Glu Gln Trp Val Tyr Phe Ile Ile Leu Leu
1                 5                    10                    15
Leu Leu Phe Phe Phe Arg Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu
              20                    25                    30
Cys Ser Gly Ala Ile Ser Val His Ser Lys Leu Arg Leu Pro Gly Ser
          35                    40                    45       48
```

```
     <210> 1694
     <211> 92
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1694
Met Ile Phe Ala Cys Glu Cys Val Leu Arg Leu Leu Leu Ile Leu Asn
1                 5                    10                    15
Val Ser Phe Leu Gly Ala Val Ser Glu Glu Thr Thr Asn Ala Leu Glu
              20                    25                    30
Thr Trp Gly Ala Leu Arg Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe
          35                    40                    45
Leu Leu Arg Glu His Ile Asp Glu Leu Ile Cys Asp Lys Thr Leu Asp
      50                    55                    60
Ser Lys Lys Ile Ala His Phe Arg Ala Glu Lys Glu Thr Phe Ser Glu
65                    70                    75                    80
Lys Asp Thr Tyr Cys Tyr Leu Lys Met Glu Leu  *
                  85                    90  91
```

```
     <210> 1695
     <211> 83
     <212> PRT
     <213> Homo sapiens
```

```
<400> 1695
Met Ala Val Gln Gln Gln Phe Ile Ile Val Val Leu Arg Leu Val Phe
1               5                   10                  15
Pro Val Ala Gly Thr Thr Arg Ala Pro Leu His Trp Val Gly Ala Ile
            20                  25                  30
Pro Gly Trp Glu Trp Pro Pro Gly Asp Asp Ala Tyr Pro Ser Leu Leu
            35                  40                  45
Ala Pro Ser Gln His Pro Tyr Ser Gly Glu Ala Leu Cys Leu Leu Leu
        50                  55                  60
Leu Pro Ser Ile Val Leu Leu Glu Ser Cys Arg Lys Val Met Glu Arg
65                  70                  75                  80
Gly Leu   *
        82
```

```
<210> 1696
<211> 159
<212> PRT
<213> Homo sapiens
```

```
<400> 1696
Met Leu Trp Leu Phe Gln Ser Leu Leu Phe Val Phe Cys Phe Gly Pro
1               5                   10                  15
Gly Asn Val Val Ser Gln Ser Ser Leu Thr Pro Leu Met Val Asn Gly
            20                  25                  30
Ile Leu Gly Glu Ser Val Thr Leu Pro Leu Glu Phe Pro Ala Gly Glu
            35                  40                  45
Lys Val Asn Phe Ile Thr Trp Leu Phe Asn Glu Thr Ser Leu Ala Phe
        50                  55                  60
Ile Val Pro His Glu Thr Lys Ser Pro Glu Ile His Val Thr Asn Pro
65                  70                  75                  80
Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu
                85                  90                  95
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser
            100                 105                 110
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Thr
            115                 120                 125
Leu Tyr Pro Ile Val Gly Asn Gly Ile Trp Gly Asn Lys Asn Phe Leu
        130                 135                 140
Thr Thr Leu Ala Arg Gly Asn Val Lys Leu Asp Gly Leu His Glu
145                 150                 155         159
```

```
<210> 1697
<211> 105
<212> PRT
<213> Homo sapiens
```

```
<400> 1697
Met Glu Pro Arg Leu Phe Cys Trp Thr Thr Leu Phe Leu Leu Ala Gly
1               5                   10                  15
Trp Cys Leu Pro Gly Leu Pro Cys Pro Ser Arg Cys Leu Cys Phe Lys
            20                  25                  30
Ser Thr Val Arg Cys Met His Leu Met Leu Asp His Ile Pro Gln Val
```

```
          35                    40                    45
Pro Gln Gln Thr Thr Val Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu
      50                    55                    60
Ile Pro Gly Ser Ala Phe Lys Lys Leu Lys Asn Leu Asn Thr Leu Tyr
 65                    70                    75                    80
Leu Tyr Lys Asn Glu Ile His Ala Leu Asp Lys Gln Thr Phe Lys Gly
                  85                    90                    95
Leu Ile Ser Leu Glu His Leu Tyr Ile
                 100                   105
```

```
          <210> 1698
          <211> 195
          <212> PRT
          <213> Homo sapiens
```

```
          <400> 1698
Met Pro Ser Trp Ile Gly Ala Val Ile Leu Pro Leu Leu Gly Leu Leu
  1               5                    10                   15
Leu Ser Leu Pro Ala Gly Ala Asp Val Lys Ala Arg Ser Cys Gly Glu
                 20                    25                   30
Val Arg Gln Ala Tyr Gly Ala Lys Gly Phe Ser Leu Ala Asp Ile Pro
          35                    40                    45
Tyr Gln Glu Ile Ala Gly Glu His Leu Arg Ile Cys Pro Gln Glu Tyr
      50                    55                    60
Thr Cys Cys Thr Thr Glu Met Glu Asp Lys Leu Ser Gln Gln Ser Lys
 65                    70                    75                    80
Leu Glu Phe Glu Asn Leu Val Glu Glu Thr Ser His Phe Val Arg Thr
                  85                    90                    95
Thr Phe Val Ser Arg His Lys Lys Phe Asp Glu Phe Phe Arg Glu Leu
                 100                   105                   110
Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Arg Thr Tyr
                 115                   120                   125
Gly Met Leu Tyr Met Gln Asn Ser Glu Val Phe Gln Asp Leu Phe Thr
         130                   135                   140
Glu Leu Lys Arg Tyr Tyr Thr Gly Gly Asn Val Asn Leu Glu Glu Met
145                   150                   155                   160
Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Gln Leu Ile
                 165                   170                   175
Asn Pro Gln Tyr Pro Phe Ser Glu Gly Phe Leu Gly Met Cys Glu Gln
                 180                   185                   190
Ile Pro   *
194
```

```
          <210> 1699
          <211> 97
          <212> PRT
          <213> Homo sapiens
```

```
          <400> 1699
Met Asp Ser Pro Trp Ala Gly Leu Leu Trp Leu Leu Pro Thr Leu Trp
  1               5                    10                   15
Ser Ser Phe Pro Ala Pro Ala Cys Trp Pro Ser Ser Ser Ser Ser Ser
                 20                    25                   30
```

Pro Val Cys Ala Ala Asn Gly Ala Met Ser Ala Ser Arg Asn Leu Arg
        35   40   45
Thr Leu Lys Gly Arg Thr Ala Pro Gly Ser Thr Leu Pro Leu Arg Arg
        50   55   60
Arg Pro Pro Pro His Ser Arg Cys Leu Met Ser Thr Phe Ser Arg Trp
65   70   75   80
Leu Arg Ser Pro Cys Gln Cys Leu Pro Arg Ser Leu His Thr Gln Thr
                85   90   95 96
    *

        <210> 1700
        <211> 129
        <212> PRT
        <213> Homo sapiens

        <400> 1700
Met Gly Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly
1   5   10   15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Glu Ser Glu Ala
        20   25   30
Pro Gly Gln Trp Val Asn Ile Ser Cys Thr Gly Ser Gly Ser Asn Leu
        35   40   45
Gly Ala Gly Phe Asp Val Gln Trp Tyr Gln Leu Ile Pro Gly Thr Ala
        50   55   60
Pro Lys Leu Leu Ile Phe Asn Asn Asn Arg Gln Pro Ser Gly Val Pro
65   70   75   80
Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile
                85   90   95
Asn Asp Leu Gln Pro Glu Asp Glu Ser Glu Tyr Tyr Cys Leu Ala Met
            100   105   110
Thr Ala Ala Ser Leu Val Ser Ser Glu Leu Gly Pro Lys Ser Pro Ala
        115   120   125   128
    *

        <210> 1701
        <211> 219
        <212> PRT
        <213> Homo sapiens

        <400> 1701
Met Arg Thr His Thr Arg Gly Ala Pro Ser Val Phe Phe Ile Tyr Leu
1   5   10   15
Leu Cys Phe Val Ser Ala Tyr Ile Thr Asp Glu Asn Pro Glu Val Met
        20   25   30
Ile Pro Phe Thr Asn Ala Asn Tyr Asp Ser His Pro Met Leu Tyr Phe
        35   40   45
Ser Arg Ala Glu Val Ala Glu Leu Gln Leu Arg Ala Ala Ser Ser His
        50   55   60
Glu His Ile Ala Ala Arg Leu Thr Glu Ala Val His Thr Met Leu Ser
65   70   75   80
Ser Pro Leu Glu Tyr Leu Pro Pro Trp Asp Pro Lys Asp Tyr Ser Ala

```
                           85                    90                    95
Arg Trp Asn Glu Ile Phe Gly Asn Asn Leu Gly Ala Leu Ala Met Phe
               100                   105                   110
Cys Val Leu Tyr Pro Glu Asn Ile Glu Ala Arg Asp Met Ala Lys Asp
               115                   120                   125
Tyr Met Glu Arg Met Ala Ala Gln Pro Ser Trp Leu Val Lys Asp Ala
               130                   135                   140
Pro Trp Asp Glu Val Pro Leu Ala His Ser Leu Val Gly Phe Ala Thr
           145                   150                   155                   160
Ala Tyr Asp Phe Leu Tyr Asn His Leu Ser Lys Thr Gln Gln Glu Lys
               165                   170                   175
Phe Leu Glu Val Ile Ala Asn Ala Ser Gly Tyr Met Phe Val Thr Leu
               180                   185                   190
Ile Leu Gly Ala Asp Gly Asp Ser Asn Thr Cys Thr Ile Ile Ser Pro
               195                   200                   205
Pro Thr Val Trp Leu Cys Ser Arg Glu Ala  *
           210                   215               218
```

```
        <210> 1702
        <211> 86
        <212> PRT
        <213> Homo sapiens


        <400> 1702
Met Glu Gln Leu Leu Gly Ile Lys Leu Gly Cys Leu Phe Ala Leu Leu
 1               5                    10                   15
Ala Leu Thr Leu Gly Cys Gly Leu Thr Pro Ile Cys Phe Lys Trp Phe
               20                   25                   30
Gln Ile Asp Ala Ala Arg Gly His His Arg Leu Val Leu Arg Leu Leu
               35                   40                   45
Gly Cys Ile Ser Ala Gly Val Phe Leu Gly Ala Gly Phe Met His Met
           50                   55                   60
Thr Ala Glu Ala Leu Glu Glu Ile Glu Ser Gln Ile Gln Lys Phe Met
 65                   70                   75                   80
Val Gln Ile Ser Lys  *
               85
```

```
        <210> 1703
        <211> 229
        <212> PRT
        <213> Homo sapiens


        <400> 1703
Met Leu Ser Met Leu Arg Thr Met Thr Arg Leu Cys Phe Leu Leu Phe
 1               5                    10                   15
Phe Ser Val Ala Thr Ser Gly Cys Ser Ala Ala Ala Ala Ser Ser Leu
               20                   25                   30
Glu Met Leu Ser Arg Glu Phe Glu Thr Cys Ala Phe Ser Phe Ser Ser
               35                   40                   45
Leu Pro Arg Ser Cys Lys Glu Ile Lys Glu Arg Cys His Ser Ala Gly
           50                   55                   60
Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly Val Val Tyr Gln Thr
 65                   70                   75                   80
```

```
Phe Cys Asp Met Thr Ser Gly Gly Gly Gly Trp Thr Leu Val Ala Ser
                85                      90                      95
Val His Glu Asn Asp Met His Gly Lys Cys Thr Val Gly Asp Arg Trp
            100                     105                 110
Ser Ser Gln Gln Gly Asn Lys Ala Asp Tyr Pro Glu Gly Asp Gly Asn
            115                 120                 125
Trp Ala Asn Tyr Asn Thr Phe Gly Ser Ala Glu Ala Ala Thr Ser Asp
    130                 135                 140
Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile Gln Ala Lys Asp Leu Gly
145                 150                 155                 160
Ile Trp His Val Pro Asn Lys Ser Pro Met Gln His Trp Arg Asn Ser
            165                 170                 175
Ala Leu Leu Arg Tyr Arg Thr Asn Thr Gly Phe Leu Gln Arg Leu Gly
            180                 185                 190
His Asn Leu Phe Gly Ile Tyr Gln Lys Tyr Pro Val Lys Tyr Arg Ser
            195                 200                 205
Gly Lys Cys Trp Asn Asp Asn Gly Pro Ala Ile Pro Trp Val Tyr Asp
210                 215                 220
Phe Gly Glu Ala   *
225             228
```

```
        <210> 1704
        <211> 202
        <212> PRT
        <213> Homo sapiens


        <400> 1704
Met Val Phe Pro Val Met Tyr Asn Leu Ile Ile Leu Val Cys Arg Ala
 1               5               10                  15
Cys Phe Pro Asp Leu Gln His Gly Tyr Leu Val Ala Trp Leu Val Leu
            20                  25                  30
Asp Tyr Thr Ser Asp Leu Leu Tyr Leu Leu Asp Met Val Val Arg Phe
        35                  40                  45
His Thr Gly Phe Leu Glu Gln Gly Ile Leu Val Val Asp Lys Gly Arg
    50                  55                  60
Ile Ser Ser Arg Tyr Val Arg Thr Trp Ser Phe Phe Leu Asp Leu Ala
65              70                  75                  80
Ser Leu Met Pro Thr Asp Val Val Tyr Val Arg Leu Gly Pro His Thr
            85                  90                  95
Pro Thr Leu Arg Leu Asn Arg Phe Leu Arg Ala Pro Arg Leu Phe Glu
            100                 105                 110
Ala Phe Asp Arg Thr Glu Thr Arg Thr Ala Tyr Pro Asn Ala Phe Cys
            115                 120                 125
Ile Gly Lys Leu Met Leu Tyr Ile Phe Gly Arg Ile His Trp Asn Asn
    130                 135                 140
Cys Leu Tyr Phe Ser Leu Ser Arg Tyr Leu Gly Phe Gly Arg Glu Pro
145                 150                 155                 160
Met Gly Val Pro Arg Thr Pro Ala Pro Thr Trp Val Leu Thr Ala Arg
            165                 170                 175
Gly Gly Pro Val Thr Ser Tyr Lys Leu Phe Asn Phe Phe His Pro Leu
            180                 185                 190
Asp Thr Trp Ile Ile Gln Gly Gly Glu   *
            195                 200 201
```

950

```
<210> 1705
<211> 58
<212> PRT
<213> Homo sapiens


<400> 1705
Met Gly Leu Leu Gly Val Leu Trp Asn Thr Thr Leu His Met Cys Arg
1               5                   10                  15
Met Arg Leu Gln Asp Thr Gly Gln Lys Ile Arg Thr Gly Ser Cys Glu
            20                  25                  30
Leu His Gly Ser Gln Ser Ser His Ser Thr Gly Asn Leu Arg Val Leu
        35                  40                  45
Pro Ser His Asn Gly Glu Thr Leu His  *
    50                  55      57


<210> 1706
<211> 55
<212> PRT
<213> Homo sapiens


<400> 1706
Met Gly Asp Tyr Arg Asn Val Arg Leu Leu Gly Ser Phe Ser Phe Ile
1               5                   10                  15
Ser Val Thr Ile Ser Arg Val Ile Phe Leu Leu Ser Leu Leu Gln Pro
            20                  25                  30
Ser Gly Val Gly Ile Leu Phe Ala Asp Ser Gly Gly Thr Gly Tyr Thr
        35                  40                  45
His His Cys Leu Trp Val  *
    50              54


<210> 1707
<211> 139
<212> PRT
<213> Homo sapiens


<400> 1707
Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln Leu Gly Trp Leu
1               5                   10                  15
Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu Ala Leu Arg Leu Gln
            20                  25                  30
Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser Tyr Thr Val Ser Gly Leu
        35                  40                  45
Arg Gly Leu Phe Trp Tyr Arg Gln Asp Pro Gly Lys Gly Pro Glu Phe
    50                  55                  60
Leu Phe Thr Leu Tyr Ser Ala Gly Glu Glu Lys Glu Lys Glu Arg Leu
65                  70                  75                  80
Lys Ala Thr Leu Thr Lys Lys Glu Ser Phe Leu His Ile Thr Ala Pro
                85                  90                  95
Lys Pro Glu Asp Ser Ala Thr Tyr Leu Cys Ala Val Gln Ala Gln Phe
            100                 105                 110
His Ser Gly Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr Arg
        115                 120                 125
```

Leu Lys Val Leu Ala Leu Tyr Pro Glu Pro *
    130   135   138

        <210> 1708
        <211> 59
        <212> PRT
        <213> Homo sapiens

        <400> 1708
Met Gly Pro Arg Phe Val Ser Thr Leu Pro Phe Ser Pro Ser Ala Ala
  1   5   10   15
Trp Cys Ala Cys Glu Ala Gly Gly Gly Leu Arg Arg Glu Val Ala His
            20   25   30
Ala Gln Arg Ala Ala Ser Thr Ala Pro Thr Ala His Met Gln Asn Ser
        35   40   45
Thr Leu Ile Gly Leu Asn Leu Ser Arg Gly *
    50   55   58

        <210> 1709
        <211> 81
        <212> PRT
        <213> Homo sapiens

        <400> 1709
Met Arg Leu Pro Trp Glu Leu Leu Val Leu Gln Ser Phe Ile Leu Cys
  1   5   10   15
Leu Ala Asp Asp Ser Thr Leu His Gly Pro Ile Phe Ile Gln Glu Pro
            20   25   30
Ser Pro Val Met Phe Pro Leu Asp Ser Glu Glu Lys Lys Ala Lys Leu
        35   40   45
Asn Cys Glu Asp Lys Gly Asp Pro Lys Pro His Ile Arg Trp Lys Leu
    50   55   60
Asn Gly Ala Asp Ala Asp Thr Gly Met Glu Phe Leu Leu Gln Arg Cys
65   70   75   80
  *

        <210> 1710
        <211> 399
        <212> PRT
        <213> Homo sapiens

        <400> 1710
Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
  1   5   10   15
Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
            20   25   30
Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
        35   40   45
Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg

                                    952

```
             50                        55                          60
    Ile Asn Leu Thr Trp His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly
    65                        70                      75                      80
    Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu
                        85                      90                      95
    Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn
                       100                     105                     110
    Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn
                       115                     120                     125
    Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu
                  130                     135                     140
    Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg
    145                     150                     155                     160
    Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu Leu
                       165                     170                     175
    Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu
                  180                     185                     190
    Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val
                  195                     200                     205
    Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile
             210                     215                     220
    Glu Leu Arg Ile Lys Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile
    225                     230                     235                     240
    Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile
                  245                     250                     255
    Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu
                  260                     265                     270
    Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly
                  275                     280                     285
    Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn
    290                     295                     300
    Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu
    305                     310                     315                     320
    His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr
                  325                     330                     335
    Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile
                  340                     345                     350
    Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp
                  355               .       360                     365
    Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr
    370                     375                     380
    Val Leu Trp Pro His His Gln Asp Phe Gln Ser Tyr Pro Lys  *
    385                     390                     395         398
```

```
        <210> 1711
        <211> 254
        <212> PRT
        <213> Homo sapiens


        <400> 1711
    Met Ala Met Gly Val Pro Arg Val Ile Leu Leu Cys Leu Phe Gly Ala
    1                   5                       10                      15
    Ala Leu Cys Leu Thr Gly Ser Gln Ala Leu Gln Cys Tyr Ser Phe Glu
                   20                      25                      30
    His Thr Tyr Phe Gly Pro Phe Asp Leu Arg Ala Met Lys Leu Pro Ser
                   35                      40                      45
```

```
Ile Ser Cys Pro His Glu Cys Phe Glu Ala Ile Leu Ser Leu Asp Thr
    50              55                  60
Gly Tyr Arg Ala Pro Val Thr Leu Val Arg Lys Gly Cys Trp Thr Gly
65              70              .75                      80
Pro Pro Ala Gly Gln Thr Gln Ser Asn Ala Asp Ala Leu Pro Pro Asp
            85                  90                  95
Tyr Ser Val Val Arg Gly Cys Thr Thr Asp Lys Cys Asn Ala His Leu
            100             105             110
Met Thr His Asp Ala Leu Pro Asn Leu Ser Gln Ala Pro Asp Pro Pro
    115             120                 125
Thr Leu Ser Gly Leu Glu Cys Tyr Ala Cys Ile Gly Val His Gln Asp
    130             135             140
Asp Cys Ala Ile Gly Arg Ser Arg Arg Val Gln Cys His Gln Asp Gln
145             .150            155                     160
Thr Ala Cys Phe Gln Gly Asn Gly Arg Met Thr Val Gly Asn Phe Ser
            165             170                 175
Val Pro Val Tyr Ile Arg Thr Cys His Arg Ala Leu Leu His His Leu
            180             185                 190
Met Gly Thr Thr Ser Pro Trp Thr Ala Ile Gly Pro Pro Arg Gly Ser
    195             200             205
Cys Cys Glu Gly Tyr Leu Cys Asn Arg Lys Ser Met Thr Gln Pro Phe
210             215             220
Thr Ser Ala Ser Ala Thr Thr Pro Pro Arg Ala Leu Gln Val Leu Ala
225             230             235             240
Leu Leu Leu Pro Val Leu Leu Leu Val Gly Leu Ser Ala  *
              245             250             253
```

```
        <210> 1712
        <211> 124
        <212> PRT
        <213> Homo sapiens


        <400> 1712
Met Thr Trp Leu Leu Val Ala Tyr Ala Asp Phe Val Val Thr Phe Val
1               5                   10                  15
Met Leu Leu Pro Ser Lys Asp Phe Trp Tyr Ser Val Val Asn Gly Val
            20                  25                  30
Ile Phe Asn Cys Leu Ala Val Leu Ala Leu Ser Ser His Leu Arg Thr
        35                  40                  45
Met Leu Thr Asp Pro Glu Lys Ser Ser Asp Cys Arg Pro Ser Ala Cys
    50                  55                  60
Thr Val Lys Thr Gly Leu Asp Pro Thr Leu Val Gly Ile Cys Gly Glu
65              70                  75                      80
Gly Thr Glu Ser Val Gln Ser Leu Leu Leu Gly Ala Val Pro Lys Gly
            85                  90                  95
Asn Ala Thr Lys Glu Tyr Met Asp Glu Leu Ala Ala Glu Ala Arg Gly
            100             105                 110
Ser His Leu Gln Val Pro Gln Val Leu Leu Tyr  *
    115             .120            123
```

```
        <210> 1713
        <211> 214
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1713
Met Leu His Leu Val Phe Ile Leu Pro Ser Leu Met Leu Leu Ile Pro
1               5                   10                  15
His Ile Leu Leu Glu Asn Phe Ala Ala Ala Ile Pro Gly His Arg Cys
            20                  25                  30
Trp Val His Met Leu Asp Asn Asn Thr Gly Ser Gly Asn Glu Thr Gly
            35                  40                  45
Ile Leu Ser Glu Asp Ala Leu Leu Arg Ile Ser Ile Pro Leu Asp Ser
    50                  55                  60
Asn Leu Arg Pro Glu Lys Cys Arg Arg Phe Val His Pro Gln Trp Gln
 65                  70                  75                  80
Leu Leu His Leu Asn Gly Thr Ile His Ser Thr Ser Glu Ala Asp Thr
            85                  90                  95
Glu Pro Cys Val Asp Gly Trp Val Tyr Asp Gln Ser Tyr Phe Pro Ser
            100                 105                 110
Thr Ile Val Thr Lys Trp Asp Leu Val Cys Asp Tyr Gln Ser Leu Lys
    115                 120                 125
Ser Val Val Gln Phe Leu Leu Leu Thr Gly Met Leu Val Gly Gly Ile
    130                 135                 140
Ile Gly Gly His Val Ser Asp Arg Trp Leu Val Glu Ser Ala Arg Trp
145                 150                 155                 160
Leu Ile Ile Thr Asn Lys Leu Asp Glu Gly Leu Lys Ala Leu Arg Lys
                165                 170                 175
Val Ala Arg Thr Asn Gly Ile Lys Asn Ala Glu Arg Asn Pro Glu His
            180                 185                 190
Arg Gly Cys Lys Ile His His Ala Gly Gly Ala Gly Cys Ser Thr Asp
        195                 200                 205
Gln Asn Tyr Cys Val  *
    210             213
```

```
        <210> 1714
        <211> 178
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1714
Met Ala Ala Ser Trp Ser Leu Leu Val Thr Leu Arg Pro Leu Ala Gln
1               5                   10                  15
Ser Pro Leu Arg Gly Arg Cys Val Gly Cys Gly Ala Trp Ala Ala Ala
            20                  25                  30
Leu Ala Pro Leu Ala Thr Ala Pro Gly Lys Pro Phe Trp Lys Ala Tyr
            35                  40                  45
Thr Val Gln Thr Ser Glu Ser Met Thr Pro Thr Ala Thr Ser Glu Thr
    50                  55                  60
Tyr Leu Lys Ala Leu Ala Val Cys His Gly Pro Leu Asp His Tyr Asp
65                  70                  75                  80
Phe Leu Ile Lys Ala His Glu Leu Lys Asp Asp Glu His Gln Arg Arg
            85                  90                  95
Val Ile Gln Cys Leu Gln Lys Leu His Glu Asp Leu Lys Gly Tyr Asn
            100                 105                 110
Ile Glu Ala Glu Gly Leu Phe Phe Lys Ala Phe Phe Lys Glu Gln Thr
    115                 120                 125
Ser Lys Gly Pro Val Cys Leu Trp Arg Cys Trp Tyr Arg Lys Asn Asn
    130                 135                 140
```

955

```
Gly Asp Gly His Val Leu Cys Leu Cys Gly Asn Glu Glu Glu Lys Thr
145                 150                 155                 160
Gly Ser Phe Ser Trp Phe His Ala Arg Cys Ala Gln Lys Asn Thr Ser
                165                 170                 175
Pro  *
177
```

```
        <210> 1715
        <211> 76
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1715
Met Arg Val Thr Ala Pro Arg Thr Val Leu Leu Leu Leu Trp Gly Ala
  1               5                  10                  15
Val Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Lys Tyr Phe
                20                  25                  30
Tyr Thr Ala Met Ser Arg Ala Gly Arg Gly Glu Pro Arg Phe Ile Ala
            35                  40                  45
Glu Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
        50                  55                  60
Ala Ser Pro Lys Thr Asp Pro Gly Arg His Gly  *
65                  70                  75
```

```
        <210> 1716
        <211> 83
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1716
Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala Met
  1               5                  10                  15
Ile Ala Ser Phe Gly Leu Phe Val Glu Tyr Glu Thr Asp His Thr Val
                20                  25                  30
Leu Glu His Phe Asn Ile Thr Lys Pro Ser Asp Met Gly Ile Phe Phe
            35                  40                  45
Glu Leu Tyr Pro Leu Phe Gln Asp Val His Gly Met Ile Phe Val Gly
        50                  55                  60
Phe Asp Phe Pro Pro Asp Leu Pro Glu Glu Leu Trp Val Ser Gln Arg
65                  70                  75                  80
Gly Tyr  *
        82
```

```
        <210> 1717
        <211> 57
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1717
Met Ala Leu Phe Phe Leu Ala Leu Asn Phe Trp Lys Val Gly Met Ala
```

```
          1                    5                   10                    15
         Cys Tyr Val Arg Thr Ser Ser Trp Asn Ser Leu Leu Phe Phe Ser Gln
                        20                   25                   30
         Pro Tyr Phe Leu Gly Ser Cys Phe Glu Gln Tyr Leu Ser Asn Val Cys
                        35                   40                   45
         Leu Pro Asp Val Val Pro Asp Ala  *
                        50                   55  56
```

```
         <210> 1718
         <211> 76
         <212> PRT
         <213> Homo sapiens
```

```
         <400> 1718
         Met Tyr Leu Gly Leu Phe Leu Asp Phe Tyr Ser Val Ser Phe Cys Gly
          1                    5                   10                    15
         Cys Leu His Met Leu Gln Pro Gln Cys Phe Asn Tyr Phe Asn Ser Lys
                        20                   25                   30
         Asp Gln Ser Arg Phe His Cys Leu Lys His Cys Ser Asp His Leu Ile
                        35                   40                   45
         Phe Leu Leu Ser Glu Leu Arg Ser Asn Met Phe Ser Ser Phe Leu Ile
                        50                   55                   60
         Leu Ser Ile Phe Tyr Asp Tyr Cys Ile Asn Leu  *
          65                   70                   75
```

```
         <210> 1719
         <211> 71
         <212> PRT
         <213> Homo sapiens
```

```
         <400> 1719
         Met Lys Ile Phe Phe His Ile Phe Phe His Lys Cys Leu Phe Thr Tyr
          1                    5                   10                    15
         Arg Leu Phe Ile Thr Leu Ala Leu Ile Leu Trp Tyr Ser Asp Ile Glu
                        20                   25                   30
         Glu Ser Thr Phe Pro Pro Leu Met Arg Tyr Cys Pro Asn Thr Val Leu
                        35                   40                   45
         His Lys Ser Phe Phe Gln Met Ser Ala Phe Ile Thr Tyr Gln Phe Ser
                        50                   55                   60
         Leu Tyr Leu Ser Leu Phe  *
          65                   70
```

```
         <210> 1720
         <211> 101
         <212> PRT
         <213> Homo sapiens
```

```
         <400> 1720
         Met Leu Ala Gly Gln Leu Leu Pro Met Leu Thr Leu Leu Pro Pro Ser
          1                    5                   10                    15
```

```
Phe Pro Leu Pro His Pro Thr Leu Gly Pro Arg Arg His Ala Ser Leu
            20              25                  30
Thr Gln Leu Gly Pro Ala Phe Trp Met Ala Trp Gly Arg Pro Trp Ala
        35              40                  45
His Leu Gly Pro Gly Gln Pro Leu Gly Gln Leu Trp Lys Ser Ser Val
        50              55                  60
Glu Glu His Leu Leu Ala Ala Trp Leu Gln Pro Leu Ala Leu Leu Glu
65                  70                  75                      80
Trp Ser Leu Gly Ala Ser Ala Leu Ser Ala Leu Gly Thr Ser His Pro
                85              90                  95
Leu Gly Leu Gln *
            100
```

```
    <210> 1721
    <211> 48
    <212> PRT
    <213> Homo sapiens


    <400> 1721
Met Leu Val Leu Leu Val Trp Val His His Thr Leu Leu Leu Gly Gln
1                   5               10                  15
Lys Ser Thr Tyr Glu Glu Lys Arg Asn Gly Lys Trp Gly Arg Gln Arg
                20              25                  30
Arg Ala Pro Tyr Leu Gly Val Tyr Ile Glu Ala Thr Gly Gln Val *
            35              40                  45      47


    <210> 1722
    <211> 70
    <212> PRT
    <213> Homo sapiens


    <400> 1722
Met Asp Val Gly Pro Asn Ser Leu Pro His Leu Gly Leu Lys Leu Leu
1                   5               10                  15
Leu Leu Leu Leu Leu Val Thr Leu Arg Gly Gln Ala Asn Thr Gly Trp
                20              25                  30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
            35              40                  45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Asp Ala
            50              55                  60
Ile Ser Leu Ile Leu *
65                  69


    <210> 1723
    <211> 54
    <212> PRT
    <213> Homo sapiens


    <400> 1723
Met Asp Leu Ile Phe Val Lys Val Leu Leu Ile Phe Ala Ala Ile Gln
```

```
          1                    5                    10                   15
Thr  Leu  Ser  Lys  Trp  Gln  Phe  Ala  Phe  Thr  Phe  Ser  Ile  Gln  Thr  Val
                     20                        25                   30
Pro  Ser  Leu  Val  Ile  Asn  Leu  Ser  Trp  Leu  Leu  Leu  Asp  Leu  Lys  Pro
               35                        40                   45
Gly  Thr  His  Ile  Gln   *
          50                   53
```

```
          <210>  1724
          <211>  60
          <212>  PRT
          <213>  Homo sapiens
```

```
          <400>  1724
Met  Val  Ser  Gly  Trp  Ile  Thr  Lys  Thr  Gln  Phe  Leu  Leu  Leu  Gly  Arg
     1                   5                        10                   15
Gly  Lys  Ile  Cys  Met  Tyr  Lys  Cys  Ile  Lys  Gln  Leu  Gln  Val  Arg  Lys
                    20                        25                   30
Thr  Asp  Val  Ile  Thr  Thr  Lys  Gln  Ile  Asn  Tyr  Glu  Glu  Ile  Asn  Cys
              35                        40                   45
Leu  Asn  His  Ile  Met  Leu  Thr  Thr  Lys  Phe  Trp   *
          50                        55                   59
```

```
          <210>  1725
          <211>  63
          <212>  PRT
          <213>  Homo sapiens
```

```
          <400>  1725
Met  Phe  Phe  Arg  Met  Gln  Val  Cys  Glu  His  His  Gly  Phe  Trp  Val  Ile
     1                   5                        10                   15
Leu  Leu  Leu  Leu  Ser  Leu  Lys  Met  Glu  Ile  Pro  Leu  Ala  Ala  Tyr  Pro
                    20                        25                   30
Thr  Ala  Glu  Tyr  Ser  Ser  Ile  Gly  Ser  Gly  Phe  Thr  Pro  Leu  His  Pro
              35                        40                   45
Ser  Arg  Thr  Phe  Thr  Gln  Ala  Ser  Pro  Leu  Pro  Ser  Ile  Phe   *
          50                        55                   60        62
```

```
          <210>  1726
          <211>  57
          <212>  PRT
          <213>  Homo sapiens
```

```
          <400>  1726
Met  Cys  Leu  Phe  Cys  Ser  Phe  Val  Asn  Val  Thr  Leu  Gly  Ser  Thr  Asp
     1                   5                        10                   15
Pro  Met  Cys  Cys  Pro  Ala  Gln  Trp  Leu  Ala  Gln  Arg  Met  Pro  Trp  Ala
                    20                        25                   30
Phe  Val  Ser  Ile  Arg  Lys  Ala  Trp  Pro  Leu  Gly  Arg  Met  Ser  Gly  Ala
              35                        40                   45
```

```
Ser Gln Arg Leu Lys Glu Glu Glu   *
    50                  55  56
```

```
        <210> 1727
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1727
Met Arg Trp Pro Trp Ala Ser Trp Ala Ala Val Leu Leu Lys Leu Pro
1               5                   10                  15
Arg Arg Val Leu Pro Trp Leu Pro Cys Gly His Gln Gln His Val Arg
            20                  25                  30
Ala Thr Ala Ser Ser Arg Ser Pro Pro Met Pro Val Thr Lys
        35                  40              ·   ·   45  46
```

```
        <210> 1728
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1728
Met Lys Met Glu Met Glu Thr Lys Arg Ser Trp Arg Pro Gln Ser His
1               5                   10                  15
Gly His Phe Thr Phe Gln Phe Leu Leu Ser Trp Thr Phe Glu Leu Ile
            20                  25                  30
Leu Phe His Phe Val Pro Phe Phe Pro Tyr Leu Leu Phe   *
        35                  40                  45
```

```
        <210> 1729
        <211> 49
        <212> PRT
        <213> Homo sapiens


        <400> 1729
Met Val Leu Leu Pro Leu Gln Cys Gly Leu Thr Lys Ala Ser Ser Cys
1               5                   10                  15
Leu His Thr Leu Cys Ser Ser Ser Asp Gln Ile Gly Tyr Leu Pro Val
            20                  25                  30
Lys Asn Thr Asp Gln Leu Gly Leu Gln Met Glu Val Ala Glu Met Cys
        35                  40                  45              48
    *
```

```
        <210> 1730
        <211> 50
        <212> PRT
        <213> Homo sapiens
```

```
<400> 1730
Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val Thr Cys
1               5                   10                  15
Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile Asn Ser
            20                  25                  30
Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Val Pro Asp Val
        35                  40                  45
Cys   *
49
```

```
<210> 1731
<211> 227
<212> PRT
<213> Homo sapiens
```

```
<400> 1731
Met Gly Cys Asp Gly Arg Val Ser Gly Leu Leu Arg Arg Asn Leu Gln
1               5                   10                  15
Pro Thr Leu Thr Tyr Trp Ser Val Phe Phe Ser Phe Gly Leu Cys Ile
            20                  25                  30
Ala Phe Leu Gly Pro Thr Leu Leu Asp Leu Arg Cys Gln Thr His Ser
        35                  40                  45
Ser Leu Pro Gln Ile Ser Trp Val Phe Phe Ser Gln Gln Leu Cys Leu
        50                  55                  60
Leu Leu Gly Ser Ala Leu Gly Gly Val Phe Lys Arg Thr Leu Ala Gln
65              70                  75                  80
Ser Leu Trp Ala Leu Phe Thr Ser Ser Leu Ala Ile Ser Leu Val Phe
                85                  90                  95
Ala Val Ile Pro Phe Cys Arg Asp Val Lys Val Leu Ala Ser Val Met
            100                 105                 110
Ala Leu Ala Gly Leu Ala Met Gly Cys Ile Asp Thr Val Ala Asn Met
        115                 120                 125
Gln Leu Val Arg Met Tyr Gln Lys Asp Ser Ala Val Phe Leu Gln Val
        130             135                 140
Leu His Phe Phe Val Gly Phe Gly Ala Leu Leu Ser Pro Leu Ile Ala
145                 150                 155                 160
Asp Pro Phe Leu Ser Glu Ala Asn Cys Leu Pro Ala Asn Ser Thr Gly
                165                 170                 175
Gln His His Leu Pro Arg Ala Thr Cys Ser Met Ser Pro Gly Cys Trp
            180                 185                 190
Gly Gln His His Val Asp Ala Gln Ala Leu Val Gln Pro Asp Val Pro
        195                 200                 205
Lys Ala Asp Ser Gln Gly Pro Gly Arg Glu Pro Glu Gly Pro Met Pro
    210                 215                 220
Ser Gly   *
225 226
```

```
<210> 1732
<211> 102
<212> PRT
<213> Homo sapiens
```

```
<400> 1732
Met Val Ser Lys Phe Leu Leu Ser His Leu Val Leu Ala Val Pro Leu
1               5                   10                  15
Arg Val Leu Leu Val Leu Trp Ala Leu Cys Val Gly Leu Ser Arg Val
            20                  25                  30
Met Ile Gly Arg His His Val Thr Asp Val Leu Ser Gly Phe Val Ile
        35                  40                  45
Gly Tyr Leu Gln Phe Arg Met Met Glu Lys Val Ser Met Gln Tyr Lys
    50                  55                  60
Thr Cys Arg Met Leu Ile Phe Val Trp Arg Arg Ala Arg Arg Pro Thr
65                  70                  75                  80
His Thr Phe Glu Gly Arg Leu Val Ser Lys Lys Gly Gln Asp Leu Ala
            85                  90                  95
Arg Trp Leu Ser Leu  *
            100 101
```

```
<210> 1733
<211> 139
<212> PRT
<213> Homo sapiens
```

```
<400> 1733
Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
1               5                   10                  15
Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
            20                  25                  30
Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
        35                  40                  45
Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
    50                  55                  60
Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
65                  70                  75                  80
Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
            85                  90                  95
Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
            100                 105                 110
Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
        115                 120                 125
Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala  *
    130                 135             138
```

```
<210> 1734
<211> 60
<212> PRT
<213> Homo sapiens
```

```
<400> 1734
Met Val Arg Ala Ser Phe Leu Cys Cys Val His Arg Thr Leu Gly Pro
1               5                   10                  15
Trp Asp Leu Ser His Met Glu Leu Gly Gln Leu Leu Gln Asn Ala Pro
            20                  25                  30
Ser Ala His Arg Gly Cys Leu Gly Val Trp Lys Glu Val Val Pro Lys
```

```
              35                    40                    45
Gln Leu Val Cys Trp Ile Leu Thr Phe Phe Phe   *
        50                    55                    59



        <210> 1735
        <211> 73
        <212> PRT
        <213> Homo sapiens


        <400> 1735
Met Cys Ala Cys Ala Val Arg Ala Leu Ser Leu Ala Gly Gly Ala Val
1               5                    10                    15
Leu Leu Ser Ser Leu Cys Ala Cys Ala Arg Ala Pro Arg Tyr Val Gly
            20                    25                    30
Gly Glu Arg Arg Val Gln Ser Pro Ala Arg Pro Ala Asp Ser Val Ala
        35                    40                    45
Arg Ile Ala Phe Ile Leu Phe Arg Phe Arg Thr Asp Leu Gln Ser Gly
    50                    55                    60
Pro Ser Leu His Leu Gly Ile Cys   *
65                    70        72



        <210> 1736
        <211> 65
        <212> PRT
        <213> Homo sapiens


        <400> 1736
Met Met Ala Leu Phe Thr Gly Lys Leu Leu Gln Val Val Ser Lys Val
1               5                    10                    15
Leu Trp Leu Tyr Gln Thr Asn Phe Ser Leu His Thr His Tyr Ser Phe
            20                    25                    30
Asn Arg Gly Gln Ile Phe Lys Arg Lys Thr Val Gln Asn Cys Arg His
        35                    40                    45
Thr Cys Ala Asn Pro Gly Ser Val Glu Arg Leu Ile Trp Glu Phe Gln
    50                    55                    60                64
    *



        <210> 1737
        <211> 47
        <212> PRT
        <213> Homo sapiens


        <400> 1737
Met Ile Gln Val Arg Asn Leu Ile Val Leu Val Cys Phe Leu Val Glu
1               5                    10                    15
Leu Leu Asn Val Pro Val Leu Phe Leu Tyr Ser Arg Gly Trp Gln Thr
            20                    25                    30
Leu Thr His Gly Leu Thr Gln Leu Lys Thr Ala Phe Phe Leu   *
        35                    40                    45  46
```

```
<210> 1738
<211> 107
<212> PRT
<213> Homo sapiens


<400> 1738
Met Val Thr Gln Leu Thr Leu Glu Val Leu His Leu Ser Leu Val Val
1               5                   10                  15
Gly Gln Val Ser Asn Asn Leu Leu Leu His Ile Gly Pro Leu Ala Ser
            20                  25                  30
Glu Gln Met Phe Tyr Ala Val Ala Thr Lys Ile Arg Asp Glu Asn Thr
        35                  40                  45
Tyr Lys Ile Cys Thr Trp Leu Glu Ile Lys Val His His Val Leu Leu
    50                  55                  60
His Ile Gln Gly Thr Leu Thr Cys Ser Tyr Leu Ser His Ser Glu Gln
65                  70                  75                  80
Leu Val Phe Gln Ser Tyr Glu Tyr Val Asp Cys Arg Gly Asn Ala Ser
                85                  90                  95
Val Pro His Gln Leu Thr Pro His Pro Pro   *
                100                 105 106
```

```
<210> 1739
<211> 90
<212> PRT
<213> Homo sapiens


<400> 1739
Met Val Leu Pro Pro His Lys Thr Val Gln Leu Pro Arg Leu His Leu
1               5                   10                  15
Val Trp Leu Trp Val Ser Gln Ala Trp Val Gly Gly Thr Val Leu His
            20                  25                  30
Trp Leu Ala Ser Gln Gln Leu Cys Val Leu Val Pro Ala Ser Leu Thr
        35                  40                  45
Met Ser Trp Asp Leu Glu Ala Arg Leu Gly Tyr Ile Leu Ala Trp Met
    50                  55                  60
Ser Leu Gly Pro Cys Tyr Cys Cys Leu Phe Thr Ile Pro Thr Leu Leu
65                  70                  75                  80
Glu Ile Ser Leu Ile Val Ser Leu Ala   *
                85                  89
```

```
<210> 1740
<211> 57
<212> PRT
<213> Homo sapiens


<400> 1740
Met His Cys Val Leu Glu Ile Leu Val Ser Val Leu Gly Leu Thr His
1               5                   10                  15
His Leu Leu Leu Arg Asp Arg Asp His Tyr Arg Leu Val Arg Leu Met
```

```
                    20                        25                        30
Gly Asp Val Gly Gly Glu Gly Glu Leu Lys Ala Met Trp Arg Val Cys
        35                        40                        45
Leu Ser Val Cys Arg Val Asp Lys  *
    50                        55  56
```

```
        <210> 1741
        <211> 49
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1741
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
1                   5                        10                        15
Val Met Ser Pro Cys Gly Gly Glu Gly Ile Val Gly Glu Cys Met Ser
                20                        25                        30
Glu Gly Cys Ser Leu Glu Leu Lys Asn Ser Lys Leu Lys Glu Lys Arg
            35                        40                        45        48
 *
```

```
        <210> 1742
        <211> 87
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1742
Met Ser Phe Val Lys Ile Leu Ile Trp Glu Leu Phe Ile Ala Cys Phe
1                   5                        10                        15
Pro Gln Gly Pro Leu Val His Ser Gly Lys Met Leu Lys His Gly Leu
                20                        25                        30
Asp Trp His Arg Thr Leu Leu Gln Lys His Pro Cys Ile Leu Phe Phe
            35                        40                        45
Ser Phe Leu Lys Trp Asn Leu Ala Leu Ser Pro Trp Met Glu Gly Ser
        50                        55                        60
Gly Ala Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly Ser Arg Asp
65                        70                        75                        80
Ala Pro Ala Ser Val Ser  *
                85  86
```

```
        <210> 1743
        <211> 49
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1743
Met Gly Phe Leu Ser Leu Thr Leu Tyr Leu Leu Thr Ser Leu Asn Lys
1                   5                        10                        15
Met Leu Phe Lys Leu Arg Gly Ala Gln Pro Thr Glu Glu Asp Ile Gly
                20                        25                        30
```

965

```
Gly Trp Leu Asn Glu Leu Lys Thr Ser Leu Lys Tyr Ile Arg Leu Arg
        35              40              45          48
 *
```

```
        <210> 1744
        <211> 57
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1744
Met Gly Val Ser Glu Leu Leu Leu Leu Leu Lys Met Ile Ala Ser Val
 1               5               10              15
Ile Phe Leu Tyr Ser Phe Ile Ser Met Phe Lys Thr Gln Leu Leu Cys
            20              25              30
Ser Ser Ser Thr Ser His Gly Ile Leu Glu Ser Arg Ile Lys Cys His
        35              40              45
Ala Asp Phe Tyr Leu Phe Cys Gln  *
    50              55  56
```

```
        <210> 1745
        <211> 96
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1745
Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1               5               10              15
Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Leu Glu Cys Thr Cys Ser
            20              25              30
Trp Ser Pro Ser Leu Pro Lys Ser Cys Pro Glu Ile Lys Asp Gln Cys
        35              40              45
Pro Ser Ala Phe Asp Gly Leu Tyr Phe Ile Arg Thr Glu Asn Ala Val
    50              55              60
Ile His His Thr Phe Cys Val Met Thr Ser Ala Gly Cys Phe Trp Ile
 65              70              75              80
Leu Lys Val Thr Val His Asn Tyr Asp Leu Thr Thr Asp Thr Pro  *
                85              90              95
```

```
        <210> 1746
        <211> 53
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1746
Met Val Ile Ser Ala Ala Val Leu Ser Ser Ile Leu Cys Val Phe Leu
 1               5               10              15
Ser Lys Leu Val Leu Met Asn Asp Glu Cys Leu Arg Leu Thr Phe Trp
            20              25              30
Leu His Cys Asn Ala Lys His Tyr Arg Tyr Ser Met Leu Gly Phe Pro
```

```
         35                    40                    45
Lys Leu Thr Ser Val
      50        53




     <210> 1747
     <211> 49
     <212> PRT
     <213> Homo sapiens


     <400> 1747
Met Asn Phe Glu Ile Leu Ile Gln Arg Ser Leu Leu Phe Tyr Phe Val
 1               5                  10                  15
Leu Ala Leu Asn Phe Pro Val Ala Ser Leu Asp Phe Phe Ser Val Lys
            20                  25                  30
Ile Ile Ser Ala Val Phe Val Glu Gln Lys Phe Trp Asp Phe Val Lys
          35                  40                  45        48
  *




     <210> 1748
     <211> 196
     <212> PRT
     <213> Homo sapiens


     <400> 1748
Met Ala Met Leu Pro Phe Pro Ile Phe Leu Val Leu Leu Leu Arg Gly
 1               5                  10                  15
Leu Val Leu Trp Thr Pro Ala Ser Ser Gly Thr Ile Met Pro Glu Glu
            20                  25                  30
Arg Lys Thr Glu Ile Glu Arg Glu Thr Glu Thr Glu Ser Glu Thr Val
          35                  40                  45
Ile Gly Thr Glu Lys Glu Asn Ala Pro Glu Arg Glu Arg Gly Ser Val
    50                  55                  60
Ile Thr Val Leu His Gln Val Phe Ser Thr Ala Met Lys Asn Asp Thr
65                  70                  75                  80
Asp Thr Gly Asn Met Gln Lys Glu Val Met Ser Val Thr Glu Gln Val
                85                  90                  95
Glu Lys Lys Lys Asn Asp Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg
            100                 105                 110
Lys Pro Asp Ile Ser Leu Leu Glu Val Ile Val Asp Val Ala Met Lys
          115                 120                 125
Val Lys Lys Glu Ile Val Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys
          130                 135                 140
Glu Ala Lys Lys Glu Lys Lys Arg Ala Val Ser Leu Pro Leu Asn Arg
145                 150                 155                 160
Arg Ala Pro Lys Leu His Leu Gln Asn Arg His Gly Phe Gly Leu Leu
            165                 170                 175
Cys Ile Leu Val Pro Glu Val Asp Thr Ile Asn Leu Val Ile Phe Leu
          180                 185                 190
Asp Asn Val  *
          195
```

967

```
<210> 1749
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1749
```
Met Leu Val Lys Val Val Tyr Val Met Gly Ala Ile Leu Lys Ile Phe
1   5   10   15
Leu Arg Glu Gly Asn Val Ile Asn Gln Arg Ser Gly Met Asp Ile Glu
            20   25   30
Lys Tyr Ser Glu His Tyr Leu Ala Gln Gly Val Arg Trp *
        35   40   45


```
<210> 1750
<211> 82
<212> PRT
<213> Homo sapiens


<400> 1750
```
Met Glu Leu Val Arg Arg Leu Met Pro Leu Thr Leu Leu Ile Leu Ser
1   5   10   15
Cys Leu Ala Glu Leu Thr Met Ala Glu Ala Glu Gly Asn Ala Ser Cys
            20   25   30
Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His Lys Ala Met
        35   40   45
Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg
    50   55   60
Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Cys Tyr Val Gln Leu Gly
65   70   75   80
Ser Glu
    82


```
<210> 1751
<211> 94
<212> PRT
<213> Homo sapiens


<400> 1751
```
Met Gly Ser Val Phe Trp His Val Leu Phe Cys Ile Ser Gly Val Cys
1   5   10   15
Leu Trp Cys Ala His Arg Met Ala Ala Phe Leu Gln Gln Met Ala Val
            20   25   30
Leu Leu Pro Val Asp Cys Glu Arg Pro Ala Ala Val His Trp Leu Ala
        35   40   45
Leu Cys Gly Cys Cys Tyr Gly Gln Leu Val Trp Glu Ser Arg Thr Arg
    50   55   60
Ser Cys Phe Trp Ser Leu Glu Cys Leu Cys Phe Gly Gly Gln His Phe
65   70   75   80
Gly Ser Val Pro Ser Phe Phe Cys Ser Ser Val Trp Leu *
                85   90   93

```
<210> 1752
<211> 143
<212> PRT
<213> Homo sapiens


<400> 1752
Met Asp Thr Trp Leu Val Cys Trp Ala Ile Phe Ser Leu Leu Lys Ala
1               5                   10                  15
Gly Leu Thr Glu Pro Glu Val Thr Gln Thr Pro Ser His Gln Val Thr
            20                  25                  30
Gln Met Gly Gln Glu Val Ile Leu Arg Cys Val Pro Ile Ser Asn His
        35                  40                  45
Leu Tyr Phe Tyr Trp Tyr Arg Gln Ile Leu Gly Gln Lys Val Glu Phe
    50                  55                  60
Leu Val Ser Phe Tyr Asn Asn Glu Ile Ser Glu Lys Ser Glu Ile Phe
65                  70                  75                  80
Asp Asp Gln Phe Ser Val Glu Arg Pro Asp Gly Ser Asn Phe Thr Leu
                85                  90                  95
Lys Ile Arg Ser Thr Lys Leu Glu Asp Ser Ala Met Tyr Phe Cys Ala
            100                 105                 110
Ser Ser Glu Arg Gly Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly
        115                 120                 125
Ser Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
    130                 135                 140         143


<210> 1753
<211> 64
<212> PRT
<213> Homo sapiens


<400> 1753
Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
1               5                   10                  15
Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
            20                  25                  30
Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
        35                  40                  45
Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu   *
    50                  55                  60          63


<210> 1754
<211> 124
<212> PRT
<213> Homo sapiens


<400> 1754
Met Val Leu Gln Thr His Ala Phe Ile Ser Leu Leu Leu Trp Ile Ser
1               5                   10                  15
Gly Ala Cys Gly Asp Ile Val Met Thr His Ser Pro Asp Ser Leu Ala
            20                  25                  30
```

```
Val Ser Leu Gly Glu Thr Ala Thr Ile Asp Cys Arg Ser Ser Gln Ser
        35                  40                  45
Val Leu Tyr His Ala Asn Asn Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
    50                  55                  60
Arg Pro Arg Gln Ser Pro Lys Val Leu Ile Phe Trp Ala Ser Thr Arg
65                  70                  75                  80
Glu Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
                85                  90                  95
Tyr Ser Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr
                100                 105                 110
Tyr Cys Gln Gln Tyr Tyr Asp Ser Pro Ile Thr Phe
        115                 120                 124
```

```
        <210> 1755
        <211> 111
        <212> PRT
        <213> Homo sapiens


        <400> 1755
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Leu Ser Leu Phe
1                   5                   10                  15
Ala Gly Leu Asn Pro Ser Lys Thr His Ile Asn Pro Lys Glu Gly Trp
                20                  25                  30
Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Gly Ile Cys Thr
        35                  40                  45
Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp Ala Lys Ser Arg
    50                  55                  60
Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn Met Ser Gln Ser Ile
65                  70                  75                  80
Glu Val Leu Asn Leu Arg Thr Gln Arg Asp Phe Gln Tyr Val Leu Lys
                85                  90                  95
Met Glu Thr Gln Met Lys Gly Leu Lys Ala Lys Phe Arg Gln Ile
                100                 105                 110 111
```

```
        <210> 1756
        <211> 74
        <212> PRT
        <213> Homo sapiens


        <400> 1756
Met Leu Pro Arg Leu Val Leu Ser Ser Trp Pro Gln Ser Ile Phe Leu
1                   5                   10                  15
Pro Arg Phe Trp Asn Tyr Arg Cys Glu Pro Pro Cys Leu Ala Cys Phe
                20                  25                  30
Asp Ile Phe Tyr Ser Val Leu Ile Thr Asn Ser Leu His Met Pro Glu
            35                  40                  45
Tyr Lys Ser Lys Cys Tyr Leu Leu Phe Arg Trp Glu Leu Gln Lys Leu
    50                  55                  60
His Gln Lys Tyr Ala Leu Arg Tyr Ile  *
65                  70          73
```

970

<210> 1757
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1757

```
Met Glu Asn Val Asn Leu Lys Ala Ser Tyr Leu Gln Phe Ser Lys Leu
1               5                   10                  15
Met Ala Gly Lys Gly Trp Ala Leu Phe Ile Ala Leu Thr Phe Ser Gln
                20                  25                  30
Arg Leu Leu Pro Cys Leu Ala Ile Ile Glu Ile Ile Asn Val Gly Val
            35                  40                  45
Glu  *
49
```


<210> 1758
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1758

```
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Glu
1               5                   10                  15
Ser Val Ala Ser Tyr Glu Leu Phe Gln Pro Pro Ser Val Ser Val Ser
                20                  25                  30
Pro Gly Gln Thr Ala Thr Phe Thr Cys Ser Gly Asp Asp Leu Gly Asn
            35                  40                  45
Lys Tyr Ile Cys Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Val Val
        50                  55                  60
Leu Met Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
65                  70                  75                  80
Ser Gly Ser Asn Ser Gly Ser Thr Ala Thr Leu Thr Ile Ser Gly Thr
                85                  90                  95
Gln Ala Thr Asp Glu Ala Leu Tyr Phe Cys Gln Ala Trp Asp Thr Asn
            100                 105                 110
Gly Ala Val Phe Gly Gly Gly Thr Gln Leu Thr
            115                 120     123
```


<210> 1759
<211> 75
<212> PRT
<213> Homo sapiens

<400> 1759

```
Met Arg Trp Arg Thr Ile Leu Leu Gln Tyr Cys Phe Leu Leu Ile Thr
1               5                   10                  15
Cys Leu Leu Thr Ala Leu Glu Ala Val Pro Ile Asp Ile Asp Lys Thr
                20                  25                  30
Lys Val Gln Asn Ile His Pro Val Glu Ser Ala Lys Ile Glu Pro Pro
            35                  40                  45
Asp Thr Gly Leu Tyr Tyr Asp Glu Ile Val Leu Glu Glu Leu Gly Gly
        50                  55                  60
```

971

```
Pro Cys Leu Tyr Leu Glu Gly Asn Pro Thr  *
65                      70          74
```

```
        <210> 1760
        <211> 122
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1760
Met Arg Leu Pro Asp Val Gln Leu Trp Leu Val Leu Leu Trp Ala Leu
1               5                   10                  15
Val Arg Ala Gln Gly Thr Gly Ser Val Cys Pro Ser Cys Gly Gly Ser
            20                  25                  30
Lys Leu Ala Pro Gln Ala Glu Arg Ala Leu Val Leu Glu Leu Ala Lys
        35                  40                  45
Gln Gln Ile Leu Asp Gly Leu His Leu Thr Ser Arg Pro Arg Ile Thr
    50                  55                  60
His Pro Pro Pro Gln Ala Ala Leu Thr Arg Ala Leu Arg Arg Leu Gln
65                  70                  75                  80
Pro Gly Ser Val Ala Pro Gly Asn Gly Glu Glu Val Ile Ser Phe Ala
            85                  90                  95
Thr Val Thr Asp Ser Thr Ser Ala Tyr Ser Ser Leu Leu Thr Phe His
            100                 105                 110
Leu Ser Thr Pro Arg Ser His His Leu Tyr
            115                 120     122
```

```
        <210> 1761
        <211> 123
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1761
Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
1               5                   10                  15
Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
            20                  25                  30
Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
        35                  40                  45
Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
    50                  55                  60
Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Glu Asp Ser Leu Lys
65                  70                  75                  80
Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
            85                  90                  95
Pro Asn Pro Glu Asn Lys Asp Tyr Glu Glu Pro Lys Lys Val Arg Lys
            100                 105                 110
Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe  *
            115                 120     122
```

```
        <210> 1762
        <211> 145
```

972

```
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(145)
<223> Xaa = any amino acid or nothing


<400> 1762
Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu His
1               5                   10                  15
Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly Leu Ala
            20                  25                  30
Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu Glu Met Glu
        35                  40                  45
Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala His His Ala Leu
    50                  55                  60
Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr Trp Glu Asp Lys Arg
65                  70                  75                  80
Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys Ala Gln Asn Gly Ile Ala
            85                  90                  95
Ile Met Val Tyr Thr Asn Ser Ser Asn Thr Leu Tyr Trp Glu Leu Asn
            100                 105                 110
Xaa Ala Val Arg Thr Gly Gly Gly Ser Arg Glu Leu Tyr Met Arg His
        115                 120                 125
Phe Pro Phe Lys Ala Leu His Phe Tyr Leu Ile Arg Ala Leu Gln Leu
130                 135                 140
Leu
145



<210> 1763
<211> 257
<212> PRT
<213> Homo sapiens


<400> 1763
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1               5                   10                  15
Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
            20                  25                  30
Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
        35                  40                  45
Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
    50                  55                  60
Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
65                  70                  75                  80
Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
            85                  90                  95
Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
            100                 105                 110
Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
        115                 120                 125
Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
130                 135                 140
Ile Ser Arg Pro Gln Val Leu Gly Ala Ser Thr Thr Val Leu Glu Leu
145                 150                 155                 160
```

```
Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
            165                 170                 175
Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
            180                 185                 190
Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
        195                 200                 205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Asn
    210                 215                 220
Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Glu Tyr Arg Lys Ser Ser
225                 230                 235                 240
Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
            245                 250                 255 256
  *
```

```
<210> 1764
<211> 166
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(166)
<223> Xaa = any amino acid or nothing


<400> 1764
Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
1               5               .10                 15
Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
            20                  25                  30
Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
        35                  40                  45
Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
    50                  55                  60
Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe
65                  70                  75                  80
Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
            85                  90                  95
Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
            100                 105                 110
Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
        115                 120                 125
Gly Phe Gln Asp Met Glu Trp Trp Xaa Ala Leu Val Gly Arg Thr Pro
    130                 135                 140
Phe Leu Pro Ser Leu Tyr Gly Asn Pro Ala Leu Gly Cys Gln Pro Arg
145                 150                 155                 160
Val Gln Thr Phe Gly Glu
            165 166
```

```
<210> 1765
<211> 90
<212> PRT
<213> Homo sapiens
```

```
<400> 1765
Met Ser Cys Ser Cys Pro Pro Cys Phe Phe Thr Leu Phe Leu His Ser
 1               5                  10                  15
Ile Cys Gln Asp Ile Ser Trp Phe His Pro Gln Thr Pro Thr Leu Asp
            20                  25                  30
Ser Leu Leu Asn Trp Ile Asp Asp Leu Ile Phe Tyr Gly Thr Leu Tyr
            35                  40                  45
Asn Phe Phe Pro Glu Glu Thr Pro Leu Phe Thr Phe Leu Leu Thr Leu
    50                  55                  60
Tyr Leu Ser Leu Leu Leu Leu Trp Leu Pro Gly Met Ala Ala Leu Pro
65                  70                  75                  80
Leu Ala Val Met Pro Asn Tyr Leu Tyr Lys
                85                  90
```

```
<210> 1766
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<400> 1766
Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ser Leu Trp
 1               5                  10                  15
Leu Cys Cys Ala Thr Pro Ala Pro Ala Leu Gln Cys Pro Glu Gly Tyr
            20                  25                  30
Glu Pro Ser Pro Leu Asp Arg Lys Cys Ala Pro Tyr Pro Asn Val Arg
            35                  40                  45
Arg Ser Cys Pro Cys Pro Glu Gly Phe
    50                  55      57
```

```
<210> 1767
<211> 63
<212> PRT
<213> Homo sapiens
```

```
<400> 1767
Met Val Phe Leu Tyr Gly Phe Val Phe Ile Lys Lys Ala Gln Leu Ile
 1               5                  10                  15
Val Val Leu Leu Phe Thr Asp Val Ala Gln Arg Thr Ala Ala Gly Arg
            20                  25                  30
Pro Pro Thr Pro Val Leu Gly Pro Pro Ser Pro Glu Cys Cys Leu Leu
            35                  40                  45
Phe Met Glu Gly Glu Gln Trp Ile Leu Gly Thr Thr Gly Gln Ala
    50                  55                  60      63
```

```
<210> 1768
<211> 174
<212> PRT
<213> Homo sapiens
```

```
<400> 1768
```

975

```
Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
1               5                   10                  15
Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
            20                  25                  30
Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
        35                  40                  45
Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
    50                  55                  60
Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
65                  70                  75                  80
Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr
            85                  90                  95
Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly
            100                 105                 110
Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys
        115                 120                 125
Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn
    130                 135                 140
Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys
145                 150                 155                 160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Asp Val    *
                165                 170                 173
```

```
<210> 1769
<211> 78
<212> PRT
<213> Homo sapiens
```

```
<400> 1769
Met Leu Cys Leu Cys Arg Phe Ala Cys Ser Arg Arg Phe Thr Ala Met
1               5                   10                  15
Gly Leu Phe Cys Leu Ala Ser Leu Thr Leu His His Ile Phe Lys Val
            20                  25                  30
His Pro Ser Cys Ser Val Ser Val Pro Pro Gly Phe Ser Leu Leu Ser
        35                  40                  45
Ser Ala Arg Cys Met Asp Arg Pro Arg Cys Ala His Leu Phe Ala Leu
    50                  55                  60
Met Gly Pro Cys Leu Gly Leu Ser Thr Phe Gly Arg Leu    *
65                  70                  75      77
```

```
<210> 1770
<211> 149
<212> PRT
<213> Homo sapiens
```

```
<400> 1770
Met Leu Val Thr Leu Gly Leu Leu Thr Ser Phe Phe Ser Phe Leu Tyr
1               5                   10                  15
Met Val Ala Pro Ser Ile Arg Lys Phe Phe Ala Gly Gly Val Cys Arg
            20                  25                  30
Thr Asn Val Gln Leu Pro Gly Lys Val Val Val Ile Thr Gly Ala Asn
        35                  40                  45
Thr Gly Ile Gly Lys Glu Thr Ala Arg Glu Leu Ala Ser Arg Gly Ala
```

```
              50                    55                    60
Arg Val Tyr Ile Ala Cys Arg Asp Val Leu Lys Gly Glu Ser Ala Ala
65                      70                    75                    80
Ser Glu Ile Arg Val Asp Thr Lys Asn Ser Gln Val Leu Val Arg Lys
                        85                    90                    95
Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Glu Gly Phe
                        100                   105                   110
Leu Ala Glu Glu Lys Gln Leu His Ile Leu Ile Asn Asn Ala Gly Val
                        115                   120                   125
Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Thr His Leu
                        130                   135                   140
Gly Val Asn His Leu    .
145                      149
```


```
          <210> 1771
          <211> 76
          <212> PRT
          <213> Homo sapiens


          <400> 1771
Met Met Thr Leu Leu Arg Arg Gln Glu Arg Phe Pro Gly Ile Thr Phe
1                     5                     10                    15
Trp Leu Leu Ile Gln Leu Leu Gln Gln Ile Leu Ile Ser Tyr His Gln
                  20                    25                    30
Gly Ser Leu Thr Phe Met Glu Asn Gly Asn Cys Leu Leu Gln Leu Phe
              35                    40                    45
Gln Leu Gly Lys Leu Leu Val Gln Ala Ser His Leu His Gly Gln Leu
      50                    55            .            60
Leu Val Phe Val Gln Lys Ile Ile Ile Ser Met  *
65              .           70                    75
```


```
          <210> 1772
          <211> 128
          <212> PRT
          <213> Homo sapiens


          <400> 1772
Met Gly Ser Thr Lys His Trp Gly Glu Trp Leu Leu Asn Leu Lys Val
1                     5                     10                    15
Ala Pro Ala Gly Val Phe Gly Val Ala Phe Leu Ala Arg Val Ala Leu
                  20                    25                    30
Val Phe Tyr Gly Val Phe Gln Asp Arg Thr Leu His Val Arg Tyr Thr
              35                    40                    45
Asp Ile Asp Tyr Gln Val Phe Thr Asp Ala Ala Arg Phe Val Thr Glu
      50                    55                    60
Gly Arg Ser Pro Tyr Leu Arg Ala Thr Tyr Arg Tyr Thr Pro Leu Leu
65                    70                    75                    80
Gly Trp Leu Leu Thr Pro Asn Ile Tyr Leu Ser Glu Leu Phe Gly Lys
                  85                    90                    95
Phe Leu Phe Ile Ser Cys Asp Leu Leu Thr Ala Phe Leu Leu Tyr Arg
                  100                   105                   110
Leu Leu Leu Leu Lys Gly Leu Gly Arg Arg Gln Ala Cys Gly Tyr Cys
              115                   120                   125           128
```

```
<210> 1773
<211> 614
<212> PRT
<213> Homo sapiens


<400> 1773
Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
1               5                   10                  15
Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
            20                  25                  30
Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
        35                  40                  45
Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
    50                  55                  60
Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
65                  70                  75                  80
Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
            85                  90                  95
Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
            100                 105                 110
Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
        115                 120                 125
Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
    130                 135                 140
Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
145                 150                 155                 160
Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
            165                 170                 175
His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
            180                 185                 190
Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
        195                 200                 205
Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
    210                 215                 220
Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
225                 230                 235                 240
Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
            245                 250                 255
Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
            260                 265                 270
Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
        275                 280                 285
Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
    290                 295                 300
Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
305                 310                 315                 320
Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
            325                 330                 335
Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
            340                 345                 350
Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
        355                 360                 365
Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val
```

```
          370                    375                    380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385                    390                    395                    400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
                  405                    410                    415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
                  420                    425                    430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
                  435                    440                    445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
             450                    455                    460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465                    470                    475                    480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
                  485                    490                    495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
                  500                    505                    510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
             515                    520                    525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
        530                    535                    540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545                    550                    555                    560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
                  565                    570                    575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
                  580                    585                    590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
             595                    600                    605
Arg Leu Arg Lys Arg    *
        610             613
```

```
          <210> 1774
          <211> 156
          <212> PRT
          <213> Homo sapiens


          <400> 1774
Met Glu Ala Leu Thr Leu Trp Leu Leu Pro Trp Ile Cys Gln Cys Val
1                 5                    10                   15
Ser Val Arg Ala Asp Ser Ile Ile His Ile Gly Ala Ile Phe Glu Glu
             20                   25                   30
Asn Ala Ala Lys Asp Asp Arg Val Phe Gln Leu Ala Val Ser Asp Leu
        35                   40                   45
Ser Leu Asn Asp Asp Ile Leu Gln Ser Glu Lys Ile Thr Tyr Ser Ile
        50                   55                   60
Lys Val Ile Glu Ala Asn Asn Pro Phe Gln Ala Val Gln Glu Ala Cys
65                   70                   75                   80
Asp Leu Met Thr Gln Gly Ile Leu Ala Leu Val Thr Ser Thr Gly Cys
                  85                   90                   95
Ala Ser Ala Asn Ala Leu Gln Ser Leu Thr Asp Ala Met His Ile Pro
             100                  105                  110
His Leu Phe Val Gln Arg Asn Pro Gly Gly Ser Pro Arg Thr Ala Cys
        115                  120                  125
His Leu Asn Pro Ser Pro Asp Gly Glu Ala Tyr Thr Leu Ala Ser Arg
        130                  135                  140
```

979

```
Pro Pro Val Arg Leu Asn Asp Val Met Leu Arg Leu
145             150                 155 156
```

```
<210> 1775
<211> 896
<212> PRT
<213> Homo sapiens
```

```
<400> 1775
Met Gln Lys Ala Ser Val Leu Leu Phe Leu Ala Trp Val Cys Phe Leu
1               5               10                  15
Phe Tyr Ala Gly Ile Ala Leu Phe Thr Ser Gly Phe Leu Leu Thr Arg
            20              25              30
Leu Glu Leu Thr Asn His Ser Ser Cys Gln Glu Pro Pro Gly Pro Gly
        35              40                  45
Ser Leu Pro Trp Gly Ser Gln Gly Lys Pro Gly Ala Cys Trp Met Ala
    50              55              60
Ser Arg Phe Ser Arg Val Val Leu Val Leu Ile Asp Ala Leu Arg Phe
65              70              75                  80
Asp Phe Ala Gln Pro Gln His Ser His Val Pro Arg Glu Pro Pro Val
            85              90                  95
Ser Leu Pro Phe Leu Gly Lys Leu Ser Ser Leu Gln Arg Ile Leu Glu
        100             105             110
Ile Gln Pro His His Ala Arg Leu Tyr Arg Ser Gln Val Asp Pro Pro
    115             120             125
Thr Thr Thr Met Gln Arg Leu Lys Ala Leu Thr Thr Gly Ser Leu Pro
    130             135             140
Thr Phe Ile Asp Ala Gly Ser Asn Phe Ala Ser His Ala Ile Val Glu
145             150             155             160
Asp Asn Leu Ile Lys Gln Leu Thr Ser Ala Gly Arg Arg Val Val Phe
            165             170             175
Met Gly Asp Asp Thr Trp Lys Asp Leu Phe Pro Gly Ala Phe Ser Lys
        180             185             190
Ala Phe Phe Pro Ser Phe Asn Val Arg Asp Leu Asp Thr Val Asp
    195             200             205
Asn Gly Ile Leu Glu His Leu Tyr Pro Thr Met Asp Ser Gly Glu Trp
    210             215             220
Asp Val Leu Ile Ala His Phe Leu Gly Val Asp His Cys Gly His Lys
225             230             235             240
His Gly Pro His His Pro Glu Met Ala Lys Lys Leu Ser Gln Met Asp
            245             250             255
Gln Val Ile Gln Gly Leu Val Glu Arg Leu Glu Asn Asp Thr Leu Leu
        260             265             270
Val Val Ala Gly Asp His Gly Met Thr Thr Asn Gly Asp His Gly Gly
    275             280             285
Asp Ser Glu Leu Glu Val Ser Ala Ala Leu Phe Leu Tyr Ser Pro Thr
    290             295             300
Ala Val Phe Pro Ser Thr Pro Pro Glu Glu Pro Glu Val Ile Pro Gln
305             310             315             320
Val Ser Leu Val Pro Thr Leu Ala Leu Leu Leu Gly Leu Pro Ile Pro
            325             330             335
Phe Gly Asn Ile Gly Glu Val Met Ala Glu Leu Phe Ser Gly Gly Glu
        340             345             350
Asp Ser Gln Pro His Ser Ser Ala Leu Ala Gln Ala Ser Ala Leu His
    355             360             365
Leu Asn Ala Gln Gln Val Ser Arg Phe Phe His Thr Tyr Ser Ala Ala
```

980

```
          370                375                380
Thr Gln Asp Leu Gln Ala Lys Glu Leu His Gln Leu Gln Asn Leu Phe
385                390                395                400
Ser Lys Ala Ser Ala Asp Tyr Gln Trp Leu Leu Gln Ser Pro Lys Gly
                   405                410                415
Ala Glu Ala Thr Leu Pro Thr Val Ile Ala Glu Leu Gln Gln Phe Leu
              420                425                430
Arg Gly Ala Arg Ala Met Cys Ile Glu Ser Trp Ala Arg Phe Ser Leu
          435                440                445
Val Arg Met Ala Gly Gly Thr Ala Leu Leu Ala Ala Ser Cys Phe Ile
          450                455                460
Cys Leu Leu Ala Ser Gln Trp Ala Ile Ser Pro Gly Phe Pro Phe Cys
465                470                475                480
Pro Leu Leu Leu Thr Pro Val Ala Trp Gly Leu Val Gly Ala Ile Ala
              485                490                495
Tyr Ala Gly Leu Leu Gly Thr Ile Glu Leu Lys Leu Asp Leu Val Leu
              500                505                510
Leu Gly Ala Val Ala Ala Val Ser Ser Phe Leu Pro Phe Leu Trp Lys
          515                520                525
Ala Trp Ala Gly Trp Gly Ser Lys Arg Pro Leu Ala Thr Leu Phe Pro
          530                535                540
Ile Pro Gly Pro Val Leu Leu Leu Leu Phe Arg Leu Ala Val Phe
545                550                555                560
Phe Ser Asp Ser Phe Val Val Ala Glu Ala Arg Ala Thr Pro Phe Leu
              565                570                575
Leu Gly Ser Phe Ile Leu Leu Leu Val Val Gln Leu His Trp Glu Gly
              580                585                590
Gln Leu Leu Pro Pro Lys Leu Leu Thr Met Pro Arg Leu Gly Thr Ser
          595                600                605
Ala Thr Thr Asn Pro Pro Arg His Asn Gly Ala Tyr Ala Leu Arg Leu
          610                615                620
Gly Ile Gly Leu Leu Leu Cys Thr Arg Leu Ala Gly Leu Phe His Arg
625                630                635                640
Cys Pro Glu Glu Thr Pro Val Cys His Ser Ser Pro Trp Leu Ser Pro
              645                650                655
Leu Ala Ser Met Val Gly Gly Arg Ala Lys Asn Leu Trp Tyr Gly Ala
              660                665                670
Cys Val Ala Ala Leu Val Ala Leu Leu Ala Ala Val Arg Leu Trp Leu
          675                680                685
Arg Arg Tyr Gly Asn Leu Lys Ser Pro Glu Pro Pro Met Leu Phe Val
          690                695                700
Arg Trp Gly Leu Pro Leu Met Ala Leu Gly Thr Ala Ala Tyr Trp Ala
705                710                715                720
Leu Ala Ser Gly Ala Asp Glu Ala Pro Pro Arg Leu Arg Val Leu Val
              725                730                735
Ser Gly Ala Ser Met Val Leu Pro Arg Ala Val Ala Gly Leu Ala Ala
              740                745                750
Ser Gly Leu Ala Leu Leu Leu Trp Lys Pro Val Thr Val Leu Val Lys
          755                760                765
Ala Gly Ala Gly Ala Pro Arg Thr Arg Thr Val Leu Thr Pro Phe Ser
          770                775                780
Gly Pro Pro Thr Ser Gln Ala Asp Leu Asp Tyr Val Val Pro Gln Ile
785                790                795                800
Tyr Arg His Met Gln Glu Glu Phe Arg Gly Arg Leu Glu Arg Thr Lys
              805                810                815
Ser Gln Gly Pro Leu Thr Val Ala Ala Tyr Gln Leu Gly Ser Val Tyr
          820                825                830
Ser Ala Ala Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu
          835                840                845
```

                                    981

```
Leu Leu His Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu
    850                 855             860
Gln Ser Phe Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr
865             870             875                     880
Thr Pro Gly Lys Tyr Leu Ser Ser Asp Ser Leu Lys Asp Asn Ser Asp
                885             890             895 896
```

<210> 1776
<211> 178
<212> PRT
<213> Homo sapiens

<400> 1776
```
Met Trp Ala Cys Trp Cys Val Leu Gly Thr Pro Gly Val Ala Met Val
1               5                   10                  15
Leu Leu His Thr Thr Ile Ser Phe Cys Val Ala Gln Phe Arg Ser Gln
            20                  25                  30
Leu Leu Thr Trp Leu Cys Ser Leu Leu Leu Leu Ser Thr Leu Arg Leu
            35                  40                  45
Gln Gly Val Glu Glu Val Lys Arg Arg Trp Tyr Lys Thr Glu Asn Glu
    50                  55                  60
Tyr Tyr Leu Leu Gln Phe Thr Leu Thr Val Arg Cys Leu Tyr Tyr Thr
65                  70                  75                  80
Ser Phe Ser Leu Glu Leu Cys Trp Gln Gln Leu Pro Ala Ala Ser Thr
                85                  90                  95
Ser Tyr Ser Phe Pro Trp Met Leu Ala Tyr Val Phe Tyr Tyr Pro Val
                100                 105                 110
Leu His Asn Gly Pro Ile Leu Ser Phe Ser Glu Phe Ile Lys Gln Arg
            115                 120                 125
Ser Gln Trp Ser Asn Arg Glu Phe Gly Met Glu Val Glu Ser Lys Gly
    130                 135                 140
Pro Gly Ala His Pro Pro Gly Phe Glu Ser Leu Leu Cys Phe Gly Leu
145                 150                 155                 160
Arg Val Leu Ala Glu Leu Leu Thr Leu Leu Met Pro Gln Ser Ser Tyr
                165                 170                 175
Gln *
177
```

<210> 1777
<211> 59
<212> PRT
<213> Homo sapiens

<400> 1777
```
Met Pro Thr Tyr Trp Leu Ala Asn Leu Arg Pro Gly Leu Gln Pro Phe
1               5                   10                  15
Leu Leu His Phe Leu Leu Glu Trp Leu Ala Val Phe Cys Cys Lys Ile
            20                  25                  30
Met Val Leu Ala Ala Ala Gly Leu Leu Pro Thr Leu His Met Ala Ser
            35                  40                  45
Phe Phe Ser Asn Ala Leu Tyr Asn Cys Phe Tyr
```

50   55   59

```
<210> 1778
<211> 137
<212> PRT
<213> Homo sapiens


<400> 1778
Met Val Ala Pro Gly Leu Val Leu Gly Leu Val Leu Pro Leu Ile Leu
1               5                   10                  15
Trp Ala Asp Arg Ser Ala Gly Ile Gly Phe Arg Phe Ala Ser Tyr Ile
            20                  25                  30
Asn Asn Asp Met Val Leu Gln Lys Glu Pro Ala Gly Ala Val Ile Trp
        35                  40                  45
Gly Phe Gly Thr Pro Gly Ala Thr Val Thr Val Thr Leu Arg Gln Gly
    50                  55                  60
Gln Glu Thr Ile Met Lys Lys Val Thr Ser Val Lys Ala His Ser Asp
65                  70                  75                  80
Thr Trp Met Val Val Leu Asp Pro Met Lys Pro Gly Gly Pro Phe Glu
                85                  90                  95
Val Met Ala Gln Gln Thr Leu Glu Lys Ile Asn Phe Thr Leu Arg Val
            100                 105                 110
His Asp Val Leu Phe Gly Asp Val Trp Leu Cys Ser Gly Gln Ser Asn
        115                 120                 125
Met Gln Met Thr Val Leu Gln Ile Phe
130                 135     137


<210> 1779
<211> 65
<212> PRT
<213> Homo sapiens


<400> 1779
Met Lys Val Phe Phe Leu Asp Glu Ser Trp Pro Gln Trp Arg Phe Ala
1               5                   10                  15
Ala Gly Leu Leu Ala Leu Ser Phe Gly Gly Pro Ala Trp Lys Phe Leu
            20                  25                  30
Ser Val Gln Arg Val Ile Pro Trp Leu Trp Ala Ala Lys Glu Lys Pro
        35                  40                  45
Leu Gly Pro Leu Ala Thr Pro Pro Arg Leu Asn Pro Lys Val Gly Val
    50                  55                  60              64
*


<210> 1780
<211> 53
<212> PRT
<213> Homo sapiens


<400> 1780
```

```
Met Phe His Cys Tyr Trp Phe Arg Cys Leu Ser Pro Gln Thr Leu Leu
 1               5                   10                  15
Cys Lys Cys Phe Ser Lys Gly Arg Thr Asp Trp Asn Cys Gly Ser Ala
            20                  25                  30
Arg Ser His Ser Phe Gln Ser His Phe Phe Ser Ala Ala Leu Ser Ser
        35              40                  45
Cys Gly Thr Leu  *
    50      52
```

```
<210> 1781
<211> 109
<212> PRT
<213> Homo sapiens
```

```
<400> 1781
Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
 1               5                   10                  15
Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
            20                  25                  30
Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
        35              40                  45
Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
    50              55                  60
Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
65                  70                  75                  80
Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
                85                  90                  95
Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
            100                 105             109
```

```
<210> 1782
<211> 58
<212> PRT
<213> Homo sapiens
```

```
<400> 1782
Met Ala Ser Thr Trp Ser Leu Glu Arg Val Gly Thr Cys Leu Pro Cys
 1               5                   10                  15
Gly Phe Gly Thr Trp Gln Ser Thr Ala Arg Trp Pro Ser Cys Arg Ser
            20                  25                  30
Thr Ser Met Val Trp Leu Val Trp Pro Ser Leu Leu Ala Pro Ser Thr
        35              40                  45
Leu Ser Leu Trp Ala Thr Ser Met Thr  *
    50              55      57
```

```
<210> 1783
<211> 102
<212> PRT
<213> Homo sapiens
```

```
    <400> 1783
Met Leu Ile Pro His Gln Leu Pro Leu Cys Ser Pro Trp Leu Val Gln
1               5                   10                  15
Ala Met Leu Thr Ile Glu Val Pro Trp Leu Leu Gly Leu Ala His Tyr
            20                  25                  30
Arg Leu Gly Trp His Ala Leu Glu Gly Ile Phe Trp Trp Gly Ala Ser
        35                  40                  45
Val Phe His Ala Leu Gln Ala Met Leu Val Arg Lys Trp Pro Leu Gly
    50                  55                  60
Leu Val Glu Phe Thr Gly Thr Cys Gly Ile Leu Val Glu Val Ile Gly
65                  70                  75                  80
Leu Trp Trp Gly Glu Gly Ser Thr Gly Asn Arg Trp Met Gly Leu Asn
                85                  90                  95
Ser Thr Gly Gly Gln   *
                100 101
```


```
    <210> 1784
    <211> 243
    <212> PRT
    <213> Homo sapiens
```


```
    <400> 1784
Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
1               5                   10                  15
Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
            20                  25                  30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
        35                  40                  45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
    50                  55                  60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
65                  70                  75                  80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
                85                  90                  95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
                100                 105                 110
Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
            115                 120                 125
Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
        130                 135                 140
Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
145                 150                 155                 160
Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
                165                 170                 175
Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
                180                 185                 190
Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
            195                 200                 205
His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
        210                 215                 220
Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
225                 230                 235                 240
Gln Leu   *
    242
```

<210> 1785
<211> 158
<212> PRT
<213> Homo sapiens

<400> 1785
```
Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
1               5                   10                  15
Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
            20                  25                  30
Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
        35                  40                  45
Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
    50                  55                  60
Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
65                  70                  75                  80
Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
                85                  90                  95
Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
                100                 105                 110
Arg Pro Phe Glu Arg Ser Thr Ile Ile Ser Arg Ser Phe Lys Lys Ile
            115                 120                 125
Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
130                 135                 140
Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr
145                 150                 155     158
```


<210> 1786
<211> 142
<212> PRT
<213> Homo sapiens

<400> 1786
```
Met Glu Ser Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val
1               5                   10                  15
Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala
            20                  25                  30
Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val
        35                  40                  45
Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro
    50                  55                  60
Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro
65                  70                  75                  80
Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met
                85                  90                  95
Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn
                100                 105                 110
Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn
            115                 120                 125
Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro
130                 135                 140     142
```

```
<210> 1787
<211> 120
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(120)
<223> Xaa = any amino acid or nothing


<400> 1787
Met Ala Leu Thr Gly Tyr Ser Trp Leu Leu Leu Ser Ala Thr Phe Leu
1               5                   10                  15
Asn Val Gly Ala Glu Ile Ser Ile Thr Leu Glu Pro Ala Gln Pro Ser
            20                  25                  30
Glu Gly Asp Asn Val Thr Leu Val Val His Gly Leu Ser Gly Glu Leu
        35                  40                  45
Leu Ala Tyr Ser Trp Tyr Ala Gly Pro Thr Leu Ser Val Ser Tyr Leu
    50                  55                  60
Val Ala Ser Tyr Ile Val Ser Thr Gly Asp Glu Thr Pro Gly Pro Ala
65                  70                  75                  80
His Thr Xaa Arg Glu Ala Val Arg Pro Asp Gly Ser Leu Asp Ile Gln
                85                  90                  95
Gly Ile Leu Pro Arg His Ser Ser Thr Tyr Ile Leu Gln Thr Phe Asn
            100                 105                 110
Arg Gln Leu Gln Thr Glu Val Gly
        115                 120




<210> 1788
<211> 68
<212> PRT
<213> Homo sapiens



<400> 1788
Met Ser Trp Leu Ala Asn Gly Val Cys Leu Tyr Glu Tyr Leu Phe Phe
1               5                   10                  15
Arg Cys Gly Phe Leu Ile Leu Gln Pro Cys Ser Phe Asp Ala Ser Leu
            20                  25                  30
Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp
        35                  40                  45
Gly Pro Gln Gly Val Val Asn Asp Asp Phe Lys Ile Leu Ala Ile Trp
    50                  55                  60
Tyr Ile Leu  *
65      67




<210> 1789
<211> 133
<212> PRT
<213> Homo sapiens



<400> 1789
Met Ala Val Val Ile Arg Leu Leu Gly Leu Pro Phe Ile Ala Gly Pro
1               5                   10                  15
```

```
Val Asp Ile Arg His Phe Phe Thr Gly Leu Thr Ile Pro Asp Gly Gly
            20                  25                  30
Val His Ile Ile Gly Gly Glu Ile Gly Glu Ala Phe Ile Ile Phe Ala
            35                  40                  45
Thr Asp Glu Asp Ala Arg Arg Ala Ile Ser Arg Ser Gly Gly Phe Ile
        50                  55                  60
Lys Asp Ser Ser Val Glu Leu Phe Leu Ser Ser Lys Ala Glu Met Gln
65                  70                  75                      80
Lys Thr Ile Glu Met Lys Arg Thr Asp Arg Val Gly Arg Gly Arg Pro
                85                  90                  95
Gly Ser Gly Thr Ser Gly Val Asp Ser Leu Ser Asn Phe Ile Glu Ser
            100                 105                 110
Val Lys Glu Glu Ala Ser Asn Ser Gly Tyr Gly Ser Ser Ile Asn Gln
        115                 120                 125
Asp Ala Gly Phe His
    130         133
```

```
        <210> 1790
        <211> 82
        <212> PRT
        <213> Homo sapiens


        <400> 1790
Met Ala Ala Trp Gly Phe Cys Phe Ala Val Ser Ala Leu Val Val Ala
 1               5                   10                  15
Cys Glu Phe Thr Arg Leu His Gly Cys Leu Arg Leu Ser Trp Gly Asn
            20                  25                  30
Phe Thr Ala Ala Phe Ala Met Leu Ala Thr Leu Leu Cys Ala Thr Ala
        35                  40                  45
Ala Val Leu Tyr Pro Leu Tyr Phe Ala Arg Arg Glu Cys Pro Pro Glu
    50                  55                  60
Pro Ala Gly Cys Ala Ala Arg Asp Phe Arg Leu Ala Ala Ser Val Phe
65                  70                  75                      80
Ala Gly
    82
```

```
        <210> 1791
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1791
Met His Ala Ser Glu Gly Leu Pro Ala Leu Pro Leu Leu Ala Leu Val
 1               5                   10                  15
Ser His Ser His Ser Cys Pro Pro Leu Pro Leu Gln Pro His His Leu
            20                  25                  30
Pro Ala Ile Leu Phe Phe Leu Val Gly His Gln Leu Met Lys Cys Ile
        35                  40                  45
Arg  *
49
```

988

```
<210> 1792
<211> 166
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(166)
<223> Xaa = any amino acid or nothing
```

```
<400> 1792
Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
1               5                   10                  15
Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asp Pro Pro Trp Ser
            20                  25              30
Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
        35                  40                  45
His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
    50                  55                  60
Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
65                  70                  75                  80
Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
                85                  90                  95
Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
            100                 105                 110
Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
            115                 120                 125
His His Lys Val Tyr Tyr Lys Asp Gly Lys Gln Xaa Ser Asn Ser Tyr
    130                 135                 140
Asn Leu Glu Lys Asn Thr Val Asp Ser Val Ser Arg Asp Asn Ser Pro
145                 150                 155                 160
Tyr Tyr Cys Ala Gly  *
                165
```

```
<210> 1793
<211> 146
<212> PRT
<213> Homo sapiens
```

```
<400> 1793
Met Ala Thr Ala Ala Gln Gly Pro Leu Ser Leu Leu Trp Gly Trp Leu
1               5                   10                  15
Trp Ser Glu Arg Phe Trp Leu Pro Glu Asn Val Ser Trp Ala Asp Leu
            20                  25              30
Glu Gly Pro Ala Asp Gly Tyr Gly Tyr Pro Arg Gly Arg His Ile Leu
        35                  40                  45
Ser Val Phe Pro Leu Ala Ala Gly Ile Phe Phe Val Arg Leu Leu Phe
    50                  55                  60
Glu Arg Phe Ile Ala Lys Pro Cys Ala Leu Arg Ile Gly Ile Glu Asp
65                  70                  75                  80
Ser Gly Pro Tyr Gln Ala Gln Pro Asn Ala Ile Leu Glu Lys Val Phe
                85                  90                  95
Ile Ser Ile Thr Lys Tyr Pro Asp Lys Lys Arg Leu Glu Gly Leu Ser
            100                 105                 110
Lys Gln Leu Asp Trp Asn Val Arg Lys Ile Gln Cys Trp Phe Arg His
    115                 120                 125
```

Arg Arg Asn Gln Asp Lys Pro Pro Thr Leu Thr Lys Phe Cys Glu Ser
    130   135   140
Met *
145

        <210> 1794
        <211> 151
        <212> PRT
        <213> Homo sapiens

        <400> 1794
Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
1   5   10   15
Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
            20   25   30
Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
        35   40   45
His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
    50   55   60
Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Leu Ser Cys Cys Cys
65   70   75   80
Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
            85   90   95
Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
            100   105   110
Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro
        115   120   125
Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Pro Tyr Ser
    130   135   140
Ala Phe Gln Leu Gln Gln Gln
145   150 151

        <210> 1795
        <211> 177
        <212> PRT
        <213> Homo sapiens

        <400> 1795
Met Ala Ala Leu Ala Ala Ala Ala Lys Lys Val Trp Ser Ala Arg Arg
1   5   10   15
Leu Leu Val Leu Leu Phe Thr Pro Leu Ala Leu Leu Pro Val Val Phe
            20   25   30
Ala Leu Pro Pro Lys Glu Gly Arg Cys Leu Phe Val Ile Leu Leu Met
        35   40   45
Ala Val Tyr Trp Cys Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu
    50   55   60
Leu Pro Ile Val Leu Phe Pro Phe Met Gly Ile Leu Pro Ser Asn Lys
65   70   75   80
Val Cys Pro Gln Tyr Phe Leu Asp Thr Asn Phe Leu Phe Leu Ser Gly
            85   90   95
Leu Ile Met Ala Ser Ala Ile Glu Glu Trp Asn Leu His Arg Arg Ile
            100   105   110
Ala Leu Lys Ile Leu Met Leu Val Gly Val Gln Pro Ala Arg Leu Ile

```
              115                   120                   125
Leu Gly Met Met Val Thr Thr Ser Phe Leu Ser Met Trp Leu Ser Asn
      130                   135                   140
Thr Ala Ser Thr Ala Met Met Leu Pro Ile Ala Asn Ala Ile Leu Lys
145                   150                   155                   160
Ser Leu Phe Gly Gln Lys Glu Val Arg Lys Asp Pro Gln Pro Gly Glu
                  165                   170                   175 176
  *
```

```
      <210> 1796
      <211> 98
      <212> PRT
      <213> Homo sapiens

      <221> misc_feature
      <222> (1)...(98)
      <223> Xaa = any amino acid or nothing


      <400> 1796
Met His Pro Leu Pro Gly Tyr Trp Ser Cys Tyr Cys Leu Leu Leu Leu
1                 5                   10                  15
Phe Ser Leu Gly Val Gln Gly Ser Leu Gly Ala Pro Ser Ala Ala Pro
              20                  25                  30
Glu Gln Val His Leu Ser Tyr Pro Gly Glu Pro Gly Ser Met Thr Val
          35                  40                  45
Thr Trp Thr Thr Trp Val Pro Thr Arg Ser Glu Val Gln Phe Gly Leu
      50                  55                  60
Gln Pro Ser Gly Pro Leu Pro Leu Arg Ala Gln Gly Thr Phe Val Pro
65                  70                  75                  80
Phe Val Asp Xaa Gly Ile Leu Arg Arg Lys Leu Tyr Ile His Arg Val
              85                  90                  95
Thr Leu
    98
```

```
      <210> 1797
      <211> 96
      <212> PRT
      <213> Homo sapiens


      <400> 1797
Met Phe Leu Trp Leu Phe Leu Ile Leu Ser Ala Leu Ile Ser Ser Thr
1                 5                   10                  15
Asn Ala Asp Ser Asp Ile Ser Val Glu Ile Cys Asn Val Cys Ser Cys
              20                  25                  30
Val Ser Val Glu Asn Val Leu Tyr Val Asn Cys Glu Lys Val Ser Val
          35                  40                  45
Tyr Arg Pro Asn Gln Leu Lys Pro Pro Trp Ser Asn Phe Tyr His Leu
      50                  55                  60
Asn Phe Gln Asn Asn Phe Leu Asn Ile Leu Tyr Pro Asn Thr Phe Leu
65                  70                  75                  80
Asn Phe Ser His Ala Val Ser Leu His Leu Gly Asn Asn Lys Leu Gln
              85                  90                  95 96
```

991

```
<210> 1798
<211> 91
<212> PRT
<213> Homo sapiens


<400> 1798
Met Arg Pro Ala Leu Ala Val Gly Leu Val Phe Ala Gly Cys Cys Ser
1               5                   10                  15
Asn Val Ile Phe Leu Glu Leu Leu Ala Arg Lys His Pro Gly Cys Gly
            20                  25                  30
Asn Ile Val Thr Phe Ala Gln Phe Leu Phe Ile Ala Val Glu Gly Phe
        35                  40                  45
Leu Phe Glu Ala Asp Leu Gly Arg Lys Pro Pro Ala Ile Pro Ile Arg
    50                  55                  60
Tyr Tyr Ala Ile Met Val Thr Met Phe Phe Thr Val Ser Val Val Asn
65                  70                  75                  80
Asn Tyr Ala Leu Asn Leu Asn Ile Ala Met Pro
                85                  90  91



<210> 1799
<211> 77
<212> PRT
<213> Homo sapiens


<400> 1799
Met Arg Ser Leu Val Trp Val Leu Ile Gln Gln Leu Thr Pro Leu Tyr
1               5                   10                  15
Lys Gly Glu Thr Trp Thr Gln Thr Cys Thr Glu Asp His Val Thr Met
            20                  25                  30
Lys Ala Glu Ile Arg Val Met Leu Leu Glu Ala Arg Glu Asp Cys Gln
        35                  40                  45
Leu Met Thr Lys Arg Ser Gln Glu Thr Gly Leu Gln Arg Ile Leu Pro
    50                  55                  60
Glu Gly Ser Gln Lys Glu Pro Thr Leu Thr Thr Pro *
65                  70                  75  76



<210> 1800
<211> 182
<212> PRT
<213> Homo sapiens


<400> 1800
Met Ser Leu Lys Met Leu Ile Ser Arg Asn Lys Leu Ile Leu Leu Leu
1               5                   10                  15
Gly Ile Val Phe Phe Glu Arg Gly Lys Ser Ala Thr Leu Ser Leu Pro
            20                  25                  30
Lys Ala Pro Ser Cys Gly Gln Ser Leu Val Lys Val Gln Pro Trp Asn
```

```
              35                    40                    45
Tyr Phe Asn Ile Phe Ser Arg Ile Leu Gly Gly Ser Gln Val Glu Lys
      50                    55                    60
Gly Ser Tyr Pro Trp Gln Val Ser Leu Lys Gln Arg Gln Lys His Ile
  65                    70                    75                80
Cys Gly Gly Ser Ile Val Ser Pro Gln Trp Val Ile Thr Ala Ala His
                  85                    90                    95
Cys Ile Ala Asn Arg Asn Ile Val Ser Thr Leu Asn Val Thr Ala Gly
              100                   105                   110
Glu Tyr Asp Leu Ser Gln Thr Asp Pro Gly Glu Gln Thr Leu Thr Ile
      115                   120                   125
Glu Thr Val Ile Ile His Pro His Phe Ser Thr Lys Lys Pro Met Asp
      130                   135                   140
Tyr Asp Ile Ala Leu Leu Lys Met Ala Gly Ala Phe Gln Phe Gly His
  145                   150                   155                160
Phe Val Gly Pro Ile Cys Leu Pro Glu Leu Arg Glu Gln Phe Glu Ala
                  165                   170                   175
Gly Phe Ile Cys Thr Thr
              180     182


      <210> 1801
      <211> 202
      <212> PRT
      <213> Homo sapiens


      <400> 1801
Met Thr Glu Ala Thr Phe Asp Thr Leu Arg Leu Trp Leu Ile Ile Leu
  1               5                    10                    15
Leu Cys Ala Leu Arg Leu Ala Met Met Arg Ser His Leu Gln Ala Tyr
                  20                    25                    30
Leu Asn Leu Ala Gln Lys Cys Val Asp Gln Met Lys Lys Glu Ala Gly
              35                    40                    45
Arg Ile Ser Thr Val Glu Leu Gln Lys Met Val Ala Arg Val Phe Tyr
  50                    55                    60
Tyr Leu Cys Val Ile Ala Leu Gln Tyr Val Ala Pro Leu Val Met Leu
  65                    70                    75                80
Leu His Thr Thr Leu Leu Leu Lys Thr Leu Gly Asn His Ser Trp Gly
                  85                    90                    95
Ile Tyr Pro Glu Ser Ile Ser Thr Leu Pro Val Asp Asn Ser Leu Leu
              100                   105                   110
Ser Asn Ser Val Tyr Ser Glu Leu Pro Ser Ala Glu Gly Lys Met Lys
      115                   120                   125
His Asn Ala Arg Gln Gly Pro Ala Val Pro Pro Gly Met Gln Ala Tyr
      130                   135                   140
Gly Ala Ala Pro Phe Glu Asp Leu Gln Leu Asp Phe Thr Glu Met Pro
  145                   150                   155                160
Lys Cys Gly Asp Leu Ile Pro Arg Phe Gly Leu Pro Leu Arg Ile Gly
                  165                   170                   175
Ser Asp Asn Gly Leu Ala Phe Val Ala Asp Leu Val Gln Lys Thr Ala
              180                   185                   190
Lys Trp Lys Gly Pro Gln Ile Val Val Leu
      195                   200     202


      <210> 1802
```

```
<211> 172
<212> PRT
<213> Homo sapiens


<400> 1802
Met Asn Asn Phe Arg Ala Thr Ile Leu Phe Trp Ala Ala Ala Ala Trp
1               5                   10                  15
Ala Lys Ser Gly Lys Pro Ser Gly Glu Met Asp Glu Val Gly Val Gln
            20                  25                  30
Lys Cys Lys Asn Ala Leu Lys Leu Pro Val Leu Glu Val Leu Pro Gly
        35                  40                  45
Gly Gly Trp Asp Asn Leu Arg Asn Val Asp Met Gly Arg Val Met Glu
    50                  55                  60
Leu Thr Tyr Ser Asn Cys Arg Thr Thr Glu Asp Gly Gln Tyr Ile Ile
65                  70                  75                  80
Pro Asp Glu Ile Phe Thr Ile Pro Gln Lys Gln Ser Asn Leu Glu Met
                85                  90                  95
Asn Ser Glu Ile Leu Glu Ser Trp Ala Asn Tyr Gln Ser Ser Thr Ser
            100                 105                 110
Tyr Ser Ile Asn Thr Glu Leu Ser Leu Phe Ser Lys Val Asn Gly Lys
        115                 120                 125
Phe Ser Thr Glu Phe Gln Arg Met Lys Thr Leu Gln Val Lys Asp Gln
    130                 135                 140
Ala Ile Thr Thr Arg Val Gln Val Arg Asn Leu Val Tyr Thr Val Lys
145                 150                 155                 160
Ile Asn Pro Thr Leu Glu Leu Ser Ser Gly Phe Arg
                165                 170     172


<210> 1803
<211> 158
<212> PRT
<213> Homo sapiens


<400> 1803
Met Ser Leu Arg Leu Gly Pro Ala Trp Arg His Leu Thr Cys Leu Gly
1               5                   10                  15
Thr Lys His Ser Lys Ala Asn Ser Val Leu Ala Ser Gln His Ala Gly
            20                  25                  30
Phe Phe Val Ala Gln Gly Arg Trp Ala Ile His Arg Ala Phe Ser Ser
        35                  40                  45
Arg Thr Ser Pro Thr Pro Pro Arg Gly Pro Leu Leu Leu Pro Gly Arg
    50                  55                  60
His Pro Leu Leu Ser Arg Arg Arg Ala Gln Ala Ile Arg Ser Ser Thr
65                  70                  75                  80
Arg Pro Ser Leu Pro Ala His Leu Phe Lys Pro Ala Pro Ala Ile Ala
                85                  90                  95
Leu Ile Val Ser Pro Leu Arg Phe Pro Arg Arg Thr Ser Pro Cys His
            100                 105                 110
Leu Ser Gly Pro Pro Ala Pro Pro Cys Arg Thr Leu His Thr Leu Leu
        115                 120                 125
Arg Pro Val Cys Val Val Arg Arg Thr Pro Pro Val Phe Phe Thr Ser
    130                 135                 140
Phe Thr Pro Ala Arg Ala Ala Val Ala Ser His Pro Thr Pro
145                 150                 155     158
```

994

```
<210> 1804
<211> 102
<212> PRT
<213> Homo sapiens


<400> 1804
Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
1               5                   10                  15
Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
            20                  25                  30
Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
            35                  40                  45
Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
        50                  55                  60
Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
65                  70                  75                  80
Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
                85                  90                  95
Ala Arg Val Gln Ala Leu
            100     102


<210> 1805
<211> 54
<212> PRT
<213> Homo sapiens


<400> 1805
Met Ala Asp Ser Val Leu Thr Leu Val Phe Thr Ser Cys Leu Leu Ser
1               5                   10                  15
Glu Leu Ser Leu Val Cys Ser Asp Phe Arg Pro Thr Pro Ile Ser Tyr
            20                  25                  30
Gln Ser Arg Tyr Gly Ser Gly Asp Gly Trp Ile Arg Cys Lys Ser Glu
        35                  40                  45
Val Arg Glu Thr Gln  *
    50          53


<210> 1806
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1806
Met Leu Ser Val Lys Arg Phe Arg Ala Met Val Met Phe Phe Met Ala
1               5                   10                  15
Met Val Ala Met Met Lys Asn Lys Cys Gln Gln Thr Asn Glu Ala Lys
            20                  25                  30
Phe Cys Val His Met Tyr Leu His Phe Tyr Phe Ser Ser His Ser Ser
            35                  40                  45
Ala Val Cys Ile Ser Ser Pro Leu
        50              55  56
```

```
<210> 1807
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1807
Met Gln Ser Met Ile Asn Met Ile Val Ser Leu Leu Gly Leu Val Ala
1               5                   10                  15
Thr Val Thr Leu Ile Pro Ala Phe Arg Gly His Phe Ile Ala Ala Arg
            20                  25                  30
Leu Gly Gly Gln Ser Leu Gly Lys Thr Ser Arg Gln His Met  *
        35                  40                  45  46



<210> 1808
<211> 119
<212> PRT
<213> Homo sapiens


<400> 1808
Met Ala Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Leu Glu Arg
1               5                   10                  15
Gly Met Phe Ser Ser Pro Ser Pro Pro Ala Leu Leu Glu Lys Val
            20                  25                  30
Phe Gln Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys
        35                  40                  45
Glu Trp Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe
    50                  55                  60
Arg Gln Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln
65                  70                  75                  80
Arg Leu Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu
                85                  90                   ·95
Pro Asp Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu
            100                 105                 110
Gly Ser Asp Pro Thr Lys Gly
        115                 119



<210> 1809
<211> 91
<212> PRT
<213> Homo sapiens


<400> 1809
Met Ser Arg Ser His Val Ala Leu Leu Gly Leu Ser Leu Leu Leu Met
1               5                   10                  15
Leu Leu Leu Tyr Ala Gly Leu Pro Ser Pro Pro Glu Gln Thr Ser Cys
            20                  25                  30
Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Val Ser Thr Pro Ala
        35                  40                  45
Asn Ser Pro Met Phe Tyr Leu Glu Gly Leu Pro Leu His Leu Ala His
```

996

```
            50                    55                    60
Arg Val Asp Val Ile Pro Leu Ser Ser Leu Gly Pro Leu Val Ser Pro
65                    70                    75                    80
Leu Arg Cys Gln Ala Leu Pro Pro Arg Leu Ser
                85                    90  91
```

```
        <210> 1810
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1810
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
1                   5                    10                    15
Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
                20                    25                    30
Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Lys Ala Ala Ala Val Pro
            35                    40                    45
Val Ala Met Gly Leu Gly Asp Gln Arg Tyr
        50                    55        58
```

```
        <210> 1811
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1811
Met Ala Ser Ala Ser Phe Ser Leu Leu Ile Cys Gly Phe Leu Ala Ser
1                   5                    10                    15
Leu Ser Leu Gln Arg Ile Glu Glu Leu Gly Leu Gly Leu Gly Leu Gly
                20                    25                    30
Phe Gly Leu Arg Glu Cys Cys Gly Trp Phe Gly Leu Leu Ser Leu Val
            35                    40                    45        48
```

```
        <210> 1812
        <211> 84
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1812
Met Lys Val Leu Leu Ala Val Ala Leu Ile Ala Arg Thr Val Phe Phe
1                   5                    10                    15
Leu Leu Leu Ala Gly Pro Ser Ala Ala Asp Asp Lys Lys Lys Gly Pro
                20                    25                    30
Lys Val Thr Val Lys Val Tyr Phe Asp Leu Arg Ile Gly Asp Glu Asp
            35                    40                    45
Val Arg Arg Glu Ile Phe Gly Leu Phe Gly Lys Thr Ala Pro Lys Thr
        50                    55                    60
```

997

Glu Asp Asn Phe Val Ala Leu Ala Thr Gly Gln Lys Gly Phe Gly Tyr
65   70   75   80
Lys Asn Ser *
          83

          <210> 1813
          <211> 46
          <212> PRT
          <213> Homo sapiens

          <400> 1813
Met Ala Ala Ala Asp Asp Thr Ile Leu Gly Phe Arg Ala Ala Leu Leu
1   5   10   15
Ile Leu Val Ala Ala Ala Ala Ala Leu Ser Pro Lys Val Ala Cys Arg
          20   -   25   30
Val Gly Thr Val Arg Arg Arg Glu Thr Pro Gln Pro Ser Ala
          35   40   45 46

          <210> 1814
          <211> 65
          <212> PRT
          <213> Homo sapiens

          <400> 1814
Met Ile Ile Tyr Leu Thr Phe Pro Val Ala Met Phe Trp Val Ser Asn
1   5   10   15
Gln Ala Glu Trp Phe Glu Asp Asp Val Ile Gln Arg Lys Arg Glu Leu
          20   25   30
Trp Pro Pro Glu Lys Leu Gln Glu Ile Glu Glu Phe Lys Glu Arg Leu
          35   40   45
Arg Lys Arg Arg Glu Glu Lys Leu Leu Arg Asp Ala Gln Gln Asn Ser
          50   55   60   64
     *

          <210> 1815
          <211> 100
          <212> PRT
          <213> Homo sapiens

          <400> 1815
Met Phe Lys Ser Lys Leu Leu Asn Phe Tyr Ile Phe Val Asn Cys Met
1   5   10   15
Asn Phe Leu Met Leu Ser Ile Ala Ser Phe Asn Pro Phe Trp Ser Glu
          20   25   30
Ile Ile Val Cys Asn Ile Gln Phe Phe Tyr Tyr Thr Leu Ser Ser Arg
          35   40   45
Val His Val Gln Asn Val Gln Val Cys Tyr Thr Gly Ile His Val Pro
          50   55   60
Cys Trp Phe Ala Ala Pro Ile Asn Ser Ser Phe Thr Leu Gly Ile Ser

```
        65                          70                      75                          80
    Pro Asn Ala Ile Pro Phe Ile Val Pro His Pro Gln Thr Gly Pro Asn
                            85                      90                          95
    Val Arg Cys Ser
                100
```

```
        <210> 1816
        <211> 115
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(115)
        <223> Xaa = any amino acid or nothing
```

```
        <400> 1816
    Met Phe Cys Phe Leu Val Ser Val Leu Tyr Ser Lys Ala Lys Leu Ala
    1                   5                       10                          15
    Ser Ala Cys Gly Gly Ile Ile Tyr Phe Leu Ser Tyr Val Pro Tyr Met
                    20                      25                      30
    Tyr Val Ala Ile Arg Glu Glu Val Ala His Asp Lys Ile Thr Ala Phe
                    35                      40                      45
    Glu Lys Cys Ile Ala Ser Leu Met Ser Thr Thr Ala Phe Gly Leu Gly
                50                      55                      60
    Ser Lys Tyr Phe Ala Leu Tyr Glu Val Pro Gly Val Gly Ile Gln Trp
    65                      70                      75                          80
    His Thr Phe Ser Gln Ser Pro Val Glu Gly Glu Asp Leu Asn Leu Pro
                    85                      90                          95
    Pro Pro Pro Pro Met Met Pro Ala Pro Xaa Val Val Tyr Gly Ile Leu
                    100                     105                     110
    Thr Lys   *
        114
```

```
        <210> 1817
        <211> 144
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1817
    Met Val Leu Gly Leu Leu Val Gln Ile Trp Ala Leu Gln Glu Ala Ser
    1                   5                       10                          15
    Ser Leu Ser Val Gln Gln Gly Pro Asn Leu Leu Gln Val Arg Gln Gly
                    20                      25                      30
    Ser Gln Ala Thr Leu Val Cys Gln Val Asp Gln Ala Thr Ala Trp Glu
                    35                      40                      45
    Arg Leu Arg Val Lys Trp Thr Lys Asp Gly Ala Ile Leu Cys Gln Pro
                50                      55                      60
    Tyr Ile Thr Asn Gly Ser Leu Ser Leu Gly Val Cys Gly Pro Gln Gly
    65                      70                      75                          80
    Arg Leu Ser Trp Gln Ala Pro Ser His Leu Thr Leu Gln Leu Asp Pro
                    85                      90                          95
    Val Ser Leu Asn His Ser Gly Ala Tyr Val Cys Trp Ala Ala Val Glu
                    100                     105                     110
```

                                    999

```
Ile Pro Glu Leu Glu Glu Ala Glu Gly Asn Ile Thr Arg Leu Phe Val
        115             120             125
Asp Pro Asp Asp Pro Thr Gln Asn Arg Asn Arg Ile Ala Ser Phe Pro
    130             135             140
```

<210> 1818
<211> 115
<212> PRT
<213> Homo sapiens

<400> 1818

```
Met Gln Ala Asp Arg Gly Gly Val Leu Phe Leu Val Ala Leu Pro Gly
1               5               10              15
Leu Trp Glu Thr Val Leu Arg His Pro Gly Ala Ser Pro Glu Pro Val
            20              25              30
Ser Leu His Thr Gly Leu Ala Ala Glu Pro Leu Leu Gly Trp Arg Ala
        35              40              45
Glu Val Ala Thr Ala Ala Gly Leu Gln Asp Arg Arg Ile Gly Arg Arg
    50              55              60
Ser Leu Pro Ala Thr Leu Pro Pro Phe Pro Gln Ala Gly Asp Leu
65              70              75              80
Arg Glu Ser Ile Leu Leu Leu Pro Cys Arg Glu Ser Arg Ser Thr Ser
            85              90              95
Trp Leu Ser Pro Tyr Trp Val Pro Glu Ile Pro Gly Thr Leu His Asp
            100             105             110
Arg Gly Arg
        115
```

<210> 1819
<211> 70
<212> PRT
<213> Homo sapiens

<400> 1819

```
Met Pro Trp Leu Leu Ser Ala Pro Lys Leu Val Pro Ala Val Ala Asn
1               5               10              15
Val Arg Gly Leu Ser Gly Cys Met Leu Cys Ser Gln Arg Arg Tyr Ser
            20              25              30
Leu Gln Pro Val Pro Glu Arg Arg Ile Pro Asn Arg Tyr Leu Gly Gln
        35              40              45
Pro Ser Pro Phe Thr His Pro His Leu Leu Arg Pro Asp Ser Asn Ser
    50              55              60
Cys Trp Glu Val Gly *
65              69
```

<210> 1820
<211> 635
<212> PRT
<213> Homo sapiens

```
<400> 1820
Met Leu Arg Ser Leu Leu Val Tyr Met Leu Phe Leu Leu Val Thr Leu
1               5                   10                  15
Leu Ala Ser Tyr Gly Asp Ala Ser Cys His Gly His Ala Tyr Arg Leu
            20                  25                  30
Gln Ser Ala Ile Lys Gln Glu Leu His Ser Arg Ala Phe Leu Ala Ile
        35                  40                  45
Thr Arg Ser Glu Glu Leu Trp Pro Trp Met Ala His Val Leu Leu Pro
    50                  55                  60
Tyr Val His Gly Asn Gln Ser Ser Pro Glu Leu Gly Pro Pro Arg Leu
65                  70                  75                  80
Arg Gln Val Arg Leu Gln Glu Ala Leu Tyr Pro Asp Pro Pro Gly Pro
                85                  90                  95
Arg Val His Thr Cys Ser Ala Ala Gly Gly Phe Ser Thr Ser Asp Tyr
            100                 105                 110
Asp Val Gly Trp Glu Ser Pro His Asn Gly Ser Gly Thr Trp Ala Tyr
            115                 120                 125
Ser Ala Pro Asp Leu Leu Gly Ala Trp Ser Trp Gly Ser Cys Ala Val
    130                 135                 140
Tyr Asp Ser Gly Gly Tyr Val Gln Glu Leu Gly Leu Ser Leu Glu Glu
145                 150                 155                 160
Ser Arg Asp Arg Leu Arg Phe Leu Gln Leu His Asn Trp Leu Asp Asn
                165                 170                 175
Arg Ser Arg Ala Val Phe Leu Glu Leu Thr Arg Tyr Ser Pro Ala Val
            180                 185                 190
Gly Leu His Ala Ala Val Thr Leu Arg Leu Glu Phe Pro Ala Ala Gly
        195                 200                 205
Arg Ala Leu Ala Ala Leu Ser Val Arg Pro Phe Ala Leu Arg Arg Leu
    210                 215                 220
Ser Ala Gly Leu Ser Leu Pro Leu Leu Thr Ser Val Cys Leu Leu Leu
225                 230                 235                 240
Phe Ala Val His Phe Ala Val Ala Glu Ala Arg Thr Trp His Arg Glu
                245                 250                 255
Gly Arg Trp Arg Val Leu Arg Leu Gly Ala Trp Ala Arg Trp Leu Leu
            260                 265                 270
Val Ala Leu Thr Ala Ala Thr Ala Leu Val Arg Leu Ala Gln Leu Gly
        275                 280                 285
Ala Ala Asp Arg Gln Trp Thr Arg Phe Val Arg Gly Arg Pro Arg Arg
    290                 295                 300
Phe Thr Ser Phe Asp Gln Val Ala His Val Ser Ser Ala Ala Arg Gly
305                 310                 315                 320
Leu Ala Ala Ser Leu Leu Phe Leu Leu Leu Val Lys Ala Ala Gln His
                325                 330                 335
Val Arg Phe Val Arg Gln Trp Ser Val Phe Gly Lys Thr Leu Cys Arg
            340                 345                 350
Ala Leu Pro Glu Leu Leu Gly Val Thr Leu Gly Leu Val Val Leu Gly
        355                 360                 365
Val Ala Tyr Ala Gln Leu Ala Ile Leu Leu Val Ser Ser Cys Val Asp
    370                 375                 380
Ser Leu Trp Ser Val Ala Gln Ala Leu Leu Val Leu Cys Pro Gly Thr
385                 390                 395                 400
Gly Leu Ser Thr Leu Cys Pro Ala Glu Ser Trp His Leu Ser Pro Leu
                405                 410                 415
Leu Cys Val Gly Leu Trp Ala Leu Arg Leu Trp Gly Ala Leu Arg Leu
            420                 425                 430
Gly Ala Val Ile Leu Arg Trp Arg Tyr His Ala Leu Arg Gly Glu Leu
        435                 440                 445
```

```
Tyr Arg Pro Ala Trp Glu Pro Gln Asp Tyr Glu Met Val Glu Leu Phe
    450                 455                 460
Leu Arg Arg Leu Arg Leu Trp Met Gly Leu Ser Lys Val Lys Glu Phe
465                 470                 475                 480
Arg His Lys Val Arg Phe Glu Gly Met Glu Pro Leu Pro Ser Arg Ser
                485                 490                 495
Ser Arg Gly Ser Lys Val Ser Pro Asp Val Pro Pro Pro Ser Ala Gly
                500                 505                 510
Ser Asp Ala Ser His Pro Ser Thr Ser Ser Ser Gln Leu Asp Gly Leu
            515                 520                 525
Ser Val Ser Leu Gly Arg Leu Gly Thr Arg Cys Glu Pro Glu Pro Ser
    530                 535                 540
Arg Leu Gln Ala Val Phe Glu Ala Leu Leu Thr Gln Phe Asp Arg Leu
545                 550                 555                 560
Asn Gln Ala Thr Glu Asp Val Tyr Gln Leu Glu Gln Gln Leu His Ser
                565                 570                 575
Leu Gln Gly Arg Arg Ser Ser Arg Ala Pro Ala Gly Ser Ser Arg Gly
                580                 585                 590
Pro Ser Pro Gly Leu Arg Pro Ala Leu Pro Ser Arg Leu Ala Arg Ala
            595                 600                 605
Ser Arg Gly Val Asp Leu Ala Thr Gly Pro Ser Arg Thr Pro Leu Arg
    610                 615                 620
Ala Lys Asn Lys Val His Pro Ser Ser Thr *
625                 630                 634
```

```
        <210> 1821
        <211> 84
        <212> PRT
        <213> Homo sapiens


        <400> 1821
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
1               5                   10                  15
Leu Thr Gly Leu Met Leu Ser Leu Tyr Thr Leu His Val Lys Ala Ala
            20                  25                  30
Arg Ala Arg Asn Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Val
            35                  40                  45
Ile Ser Cys Thr Arg Val Phe Tyr Ser Lys Leu Pro Ala Asp Thr Leu
    50                  55                  60
Asp Leu Cys Pro Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
65                  70                  75                  80
Cys Leu Pro Gly
            84


        <210> 1822
        <211> 108
        <212> PRT
        <213> Homo sapiens


        <400> 1822
Met Ala Leu Asp Phe Val Asn Val Leu Leu Cys Gln Leu Ala Glu Val
1               5                   10                  15
Thr Leu Gly Val Leu Arg Glu Glu Gly Ala Ser Leu Leu Val Ala Leu
```

```
                 20                     25                     30
Gly Ser Ala Leu Phe Pro Ser Ala Ala Ala Val Gly Lys Gln Gly Ser
            35                     40                     45
Met Gly Val Thr Ser His Met Gln Cys Pro Val Cys Gln His Pro Arg
        50                     55                     60
Asp Val Leu Leu Ala Ser Pro Val Ser His Ser His Ala Cys Gln Pro
65                     70                     75                     80
Gln Pro Ala Gly Cys Ser Asn Cys His Leu Gly His Leu Thr Arg Ser
                85                     90                     95
Pro Pro Phe Gln Gly Leu Leu Pro Leu Leu Gln  *
                100                    105 107
```

```
        <210> 1823
        <211> 74
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1823
Met Gly Val Val Leu Tyr Val Met Leu Cys Ala Ser Leu Pro Phe Asp
1               5                   10                      15
Asp Thr Asp Ile Pro Lys Met Leu Trp Gln Gln Gln Lys Gly Val Ser
                20                  25                      30
Phe Pro Thr His Leu Ser Ile Ser Ala Asp Cys Gln Asp Leu Leu Lys
            35                  40                      45
Arg Leu Leu Glu Pro Asp Met Ile Leu Arg Pro Ser Ile Glu Glu Val
    50                  55                      60
Ser Trp His Pro Trp Leu Ala Ser Thr  *
65                  70          73
```

```
        <210> 1824
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1824
Met Ser Leu Ser Cys Thr Gly Phe Ala Leu Glu Lys Arg Cys Ala Gly
1               5                   10                      15
Trp Val Trp Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Gly Gly Gln
                20                  25                      30
Gly Arg Gln Ile Met Ile Met Val Arg Ser Leu Arg Pro Ala Gly Pro
            35                  40                      45
Thr Trp Gly Asn Leu Ser Thr Thr Lys Thr
    50                  55          58
```

```
        <210> 1825
        <211> 225
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1825
```

```
Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
  1           5              10              15
Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
         20              25              30
Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
         35              40              45
Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys
     50              55              60
Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
 65              70              75              80
Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
             85              90              95
Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
             100             105             110
Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
         115             120             125
Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
     130             135             140
Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
145             150             155             160
Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
             165             170             175
His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
         180             185             190
Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp
         195             200             205
Ile Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
     210             215             220             224
  *
```

```
<210> 1826
<211> 119
<212> PRT
<213> Homo sapiens


<400> 1826
Met Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser
  1           5              10              15
Leu Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu
         20              25              30
Val Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu
         35              40              45
Tyr His Glu Arg Ala Arg Ser Gln Gly Gln Gln Leu Leu Gln Phe Gln
     50              55              60
Ala Glu Leu Asp Lys Leu His Lys Glu Ala Ser Leu Val Cys Gly Cys
 65              70              75              80
Pro Ser Leu Arg Glu Val Pro Ser Ser Ala Val Ser Arg Leu Glu Pro
             85              90              95
Pro Ser Ile Ala Gln Pro Leu Leu Ser Arg Leu Gln Leu Tyr Leu Ser
            100             105             110
Asp Pro Ser Ser Tyr Leu Val
         115             119
```

1004

```
<210> 1827
<211> 58
<212> PRT
<213> Homo sapiens


<400> 1827
Met Lys Leu Met Arg Pro Leu Met Leu Leu Tyr Ile Ser Gln Leu Tyr
1               5                   10                  15
Met Leu Met Lys Arg Asn Ser Pro His Ile Gly Asp Cys Leu Ser Leu
            20                  25                  30
Leu Phe Leu Gln Glu Lys Lys Gln Lys Glu Val Tyr Thr Leu Leu Ala
        35                  40                  45
Met Met Gln Val Ser Phe Ile Leu Val  *
    50                  55          57
```

```
<210> 1828
<211> 102
<212> PRT
<213> Homo sapiens


<400> 1828
Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
1               5                   10                  15
Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
            20                  25                  30
Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
        35                  40                  45
Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
    50                  55                  60
Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
65                  70                  75                  80
Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
                85                  90                  95
Arg Gln Val Tyr His Asn
                100     102
```

```
<210> 1829
<211> 88
<212> PRT
<213> Homo sapiens


<400> 1829
Met Arg Lys Ile Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala
1               5                   10                  15
Pro Leu Ser Leu Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu
            20                  25                  30
Phe Arg Ala Ala Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp
        35                  40                  45
His Val Val Ser Arg Lys Lys Gln Lys Ile Ile Lys Met Leu Leu Ile
    50                  55                  60
Val Ala Leu Leu Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met
65                  70                  75                  80
```

```
Met Leu Ser Asp Tyr Ala Lys Pro
                85          88
```

```
        <210> 1830
        <211> 120
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1830
Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp Lys Ala Leu Lys Val Phe
1           5                   10                  15
Lys Leu Pro Val Glu Phe Leu Leu Leu Thr Val Pro Val Val Asp
            20              25                  30
Pro Asp Lys Asp Asp Gln Asn Trp Lys Arg Pro Leu Asn Cys Leu His
        35                  40                  45
Leu Val Ile Ser Pro Leu Val Val Val Leu Thr Leu Gln Ser Gly Thr
    50              55                  60
Tyr Gly Val Tyr Glu Ile Gly Gly Leu Val Pro Val Trp Val Val Val
65              70                  75                      80
Val Ile Ala Gly Thr Ala Leu Ala Ser Val Thr Phe Phe Ala Thr Ser
            85                  90                  95
Asp Ser Gln Pro Pro Arg Leu His Trp Leu Phe Ala Phe Leu Gly Phe
            100                 105                 110
Leu Thr Ser Ala Leu Trp Ile Asn
            115                 120
```

```
        <210> 1831
        <211> 64
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1831
Met Phe Trp Arg Gly Trp Gly Ala Pro Leu Trp Ala Trp Pro Thr Leu
1           5                   10                  15
Leu Thr Pro Ile Lys Cys Ser Ser Leu Tyr Asp Ser Phe Phe Ser Pro
            20                  25                  30
Thr Asp Ala Leu Gly Leu Glu Ser Leu Leu Gly Thr Ala Ser Leu Trp
        35                  40                  45
Pro Leu Leu Leu Ser Leu Thr Glu Leu Pro Ala Leu Leu Gln Met  *
    50                  55                  60              63
```

```
        <210> 1832
        <211> 89
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1832
Met Gly Ile Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly
1               5                   10                  15
Phe Gly Leu Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg
```

```
                   20                   25                   30
Leu Leu Leu Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu
            35                   40                   45
His Thr Ser Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu
       50                   55                   60
Glu Lys Gln Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn
65                   70                   75                   80
Val Gly Pro Arg Gln Leu Thr Val Trp
                 85                 89
```

```
    <210> 1833
    <211> 60
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1833
Met Phe Leu Val Ser Ile Ile Cys Val Thr Leu Phe Phe Pro Ile Val
1                5                  10                   15
Ala Leu Phe Asp Leu Tyr Ala Thr Leu Ala His Cys Val Tyr Ala Phe
            20                   25                   30
Ser Thr Asp Ser Leu Leu Pro Ala Val Met Leu Thr Ala Leu Pro Arg
            35                   40                   45
Ser Leu Phe Phe Ser Ser Ser Leu Ile Leu Ser Ser
       50                   55                   60
```

```
    <210> 1834
    <211> 62
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1834
Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn Leu
1                5                  10                   15
Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro Thr Glu
            20                   25                   30
Met Gln Arg Val Met Leu Arg Phe Gly Cys Ser Val Ile Cys Cys Tyr
            35                   40                   45
Cys Ile Ser Val Arg Thr Gly Arg Ser Arg Glu Thr Gly  *
       50                   55                   60  61
```

```
    <210> 1835
    <211> 71
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1835
Met Leu Leu Lys Ile Leu Lys Gly Cys Val Val Phe His His Leu Pro
1                5                  10                   15
Cys Ser Thr Gln Val Tyr Lys Pro Ser Leu Gly Met Trp Gly Phe Leu
            20                   25                   30
```

```
Ser Pro Leu Trp Glu Val Val Phe Cys His Thr Pro Cys Phe Arg Ala
        35              40              45
Gln Pro Gln Leu Asp Arg Ala Gly Ser Ser Phe Leu Ile Tyr Pro Ser
    50              55              60
Pro His Ser Thr Ser Asn  *
65              70
```

```
<210> 1836
<211> 110
<212> PRT
<213> Homo sapiens
```

```
<400> 1836
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
1               5               10              15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
            20              25              30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met Gly Ala
        35              40              45
Ser Met His Leu Arg Thr Pro Phe Thr Tyr Arg Val Pro Glu Asp Thr
    50              55              60
Trp Gly Cys Phe Phe Val Cys Asn Leu Leu Tyr Ala Leu Gly Pro His
65              70              75              80
Leu Leu Ala Tyr Arg Cys Leu Gln Trp Pro Ala Phe Phe His Gln Pro
            85              90              95
Pro Pro Ser Asp Pro Leu Ala Leu His Lys Lys Gln His  *
            100             105             109
```

```
<210> 1837
<211> 91
<212> PRT
<213> Homo sapiens
```

```
<400> 1837
Met Leu Leu Leu Leu Thr Trp Pro Tyr Ile Leu Leu Gly Phe Leu Phe
1               5               10              15
Cys Ala Phe Val Val Val Asn Gly Gly Ile Val Ile Gly Asp Arg Ser
            20              25              30
Ser His Glu Ala Cys Leu His Phe Pro Gln Leu Phe Tyr Phe Phe Ser
        35              40              45
Phe Thr Leu Phe Phe Ser Phe Pro His Leu Leu Ser Pro Ser Lys Ile
    50              55              60
Lys Thr Phe Leu Ser Leu Val Trp Lys Arg Arg Ile Leu Phe Phe Val
65              70              75              80
Val Thr Leu Val Ser Val Phe Leu Val Trp Asn
            85              90  91
```

```
<210> 1838
<211> 201
<212> PRT
<213> Homo sapiens
```

1008

```
        <400> 1838
Met Pro Ile Gly Leu Arg Gly Leu Met Ile Ala Val Met Leu Ala Ala
1               5                   10                  15
Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ser Ser Thr Leu Phe
            20                  25                  30
Thr Met Asp Ile Trp Arg Arg Leu Arg Pro Arg Ser Gly Glu Arg Glu
        35                  40                  45
Leu Leu Leu Val Gly Arg Leu Val Ile Val Ala Leu Ile Gly Val Ser
    50                  55                  60
Val Ala Trp Ile Pro Val Leu Gln Asp Ser Asn Ser Gly Gln Leu Phe
65                  70                  75                  80
Ile Tyr Met Gln Ser Val Thr Ser Ser Leu Ala Pro Pro Val Thr Ala
                85                  90                  95
Val Phe Val Leu Gly Val Phe Trp Arg Arg Ala Asn Glu Gln Gly Ala
            100                 105                 110
Phe Trp Gly Leu Ile Ala Gly Leu Val Val Gly Ala Thr Arg Leu Val
        115                 120                 125
Leu Glu Phe Leu Asn Pro Ala Pro Pro Cys Gly Glu Pro Asp Thr Arg
    130                 135                 140
Pro Ala Val Leu Gly Ser Ile His Tyr Leu His Phe Ala Val Ala Leu
145                 150                 155                 160
Phe Ala Leu Ser Gly Ala Val Val Val Ala Gly Ser Leu Leu Thr Pro
            165                 170                 175
Pro Pro Gln Ser Val Gln Ile Glu Asn Leu Thr Trp Trp Thr Leu Ala
            180                 185                 190
Gln Asp Val Pro Leu Gly Thr Lys Ala
        195                 200 201


        <210> 1839
        <211> 130
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(130)
        <223> Xaa = any amino acid or nothing


        <400> 1839
Met Leu Phe Phe Leu Gln Ser Leu Phe Met Leu Ala Thr Val Val Leu
1               5                   10                  15
Tyr Phe Ser His Leu Lys Glu Tyr Val Ala Ser Met Val Phe Ser Leu
            20                  25                  30
Ala Leu Gly Trp Thr Asn Met Leu Tyr Tyr Thr Arg Gly Phe Gln Gln
        35                  40                  45
Met Gly Ile Tyr Ala Val Met Ile Glu Lys Met Ile Leu Arg Asp Leu
    50                  55                  60
Cys Arg Phe Met Phe Val Tyr Ile Val Phe Leu Phe Gly Phe Ser Thr
65                  70                  75                  80
Ala Val Val Thr Leu Ile Glu Asp Gly Lys Asn Asp Ser Leu Pro Ser
            85                  90                  95
Glu Ser Thr Ser His Arg Trp Arg Gly Phe Ser Xaa Thr Pro Leu Xaa
            100                 105                 110
Leu Leu His Lys Leu Tyr Ser Thr Cys Leu Glu Leu Ser Asn Ser Thr
        115                 120                 125
```

1009

Xaa Asp
    130

        <210> 1840
        <211> 47
        <212> PRT
        <213> Homo sapiens

        <400> 1840
Met Asn Arg Val Met Arg Gly Leu Ala Ile Thr Thr Thr Cys Leu Leu
1   5   10   15
Ser Met Leu Gln Ala Ile Thr Ile Ser Pro Ser Ile Leu Trp Asn His
            20   25   30
Ala Ala Val Gln Tyr Val His Gly His Ser Leu Val Gln Ala *
        35   40   45 46

        <210> 1841
        <211> 82
        <212> PRT
        <213> Homo sapiens

        <400> 1841
Met Thr Ala Arg Leu Met Arg Ser Leu Leu Ala Ala Gln Leu Thr Phe
1   5   10   15
Val Tyr Arg Val Ala His Leu Met Asn Val Ala Gln Arg Ile Arg Gly
            20   25   30
Asn Arg Pro Ile Lys Asn Glu Arg Leu Leu Ala Leu Leu Gly Asp Asn
        35   40   45
Glu Lys Met Asn Leu Ser Asp Val Glu Leu Ile Pro Leu Pro Leu Glu
    50   55   60
Pro Gln Val Lys Ile Arg Gly Ile Ile Pro Glu Thr Ala Thr Leu Phe
65   70   75   80
Lys Ser
    82

        <210> 1842
        <211> 77
        <212> PRT
        <213> Homo sapiens

        <400> 1842
Met Val Ala Asn Met Phe Tyr Ile Val Val Ile Met Ala Leu Val Leu
1   5   10   15
Leu Ser Phe Gly Val Pro Arg Lys Ala Ile Leu Tyr Pro His Glu Ala
            20   25   30
Pro Ser Trp Thr Leu Ala Lys Asp Ile Val Phe His Pro Tyr Trp Met
        35   40   45
Ile Phe Gly Glu Val Tyr Ala Tyr Glu Ile Asp Val Cys Ala Asn Asp
    50   55   60
Ser Val Ile Pro Gln Ile Cys Gly Pro Ser Thr Arg Pro

65   70   75   77

```
        <210> 1843
        <211> 109
        <212> PRT
        <213> Homo sapiens


        <400> 1843
Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
1               5                   10                  15
Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
            20                  25                  30
Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
            35                  40                  45
Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
        50                  55                  60
Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
65                  70                  75                  80
Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
                85                  90                  95
Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
                100                 105             109
```

```
        <210> 1844
        <211> 85
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(85)
        <223> Xaa = any amino acid or nothing


        <400> 1844
Met Thr Ile His Leu Cys Ser Asn Leu Met Cys His Phe Leu Gln Arg
1               5                   10                  15
Met Gly Thr Ile Leu Leu Cys Pro Asn Met Gln Pro His Gln Asn Leu
            20                  25                  30
Thr Thr Val Ile Cys Ser Lys Gly Asn Leu Leu Arg Ala Val Lys Gly
        35                  40                  45
Ser Lys Ser Leu Arg Asn Ala Arg Lys Tyr Pro Phe His His Pro Pro
        50                  55                  60
Xaa Xaa Glu Pro Pro Asn Gly Gly Gln Thr Arg Xaa Gly Gly Ala Arg
65                  70                  75                  80
Phe Lys Gln Pro Thr
                85
```

```
        <210> 1845
        <211> 110
        <212> PRT
        <213> Homo sapiens
```

```
<400> 1845
Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
1               5                   10                  15
Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
            20                  25                  30
Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
        35                  40                  45
Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
    50                  55                  60
Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
65                  70                  75                  80
Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile
                85                  90                  95
Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr
                100                 105                 110


<210> 1846
<211> 94
<212> PRT
<213> Homo sapiens


<400> 1846
Met Thr Glu Pro Pro Gly Ala Ser Ser His Leu Arg Gln Ala Leu Arg
1               5                   10                  15
Cys Cys Gln Trp Leu Ala Gly Ile Pro Ser Gln Trp Val Leu Phe Trp
            20                  25                  30
Glu Val Leu Trp Lys Trp Val Leu Gln Thr Asp Ala Ala Trp Ser Pro
        35                  40                  45
Gly Phe Ser Pro Leu Pro Arg Gly Met Tyr Gln His Pro Ala Leu Pro
    50                  55                  60
Glu Met Pro Ser Pro Phe Leu Gly Ile Leu Arg Leu Glu Tyr Val Lys
65                  70                  75                  80
Leu Leu Gly Leu Cys Met Cys Leu Ser Thr Gly Ser Ser   *
                85                  90                  93


<210> 1847
<211> 1300
<212> PRT
<213> Homo sapiens


<400> 1847
Met Ala Trp Lys Thr Leu Pro Ile Tyr Leu Leu Leu Leu Leu Ser Val
1               5                   10                  15
Phe Val Ile Gln Gln Val Ser Ser Gln Asp Leu Ser Ser Cys Ala Gly
            20                  25                  30
Arg Cys Gly Glu Gly Tyr Ser Arg Asp Ala Thr Cys Asn Cys Asp Tyr
        35                  40                  45
Asn Cys Gln His Tyr Met Glu Cys Cys Pro Asp Phe Lys Arg Val Cys
    50                  55                  60
Thr Ala Glu Leu Ser Cys Lys Gly Arg Cys Phe Glu Ser Phe Glu Arg
65                  70                  75                  80
Gly Arg Glu Cys Asp Cys Asp Ala Gln Cys Lys Lys Tyr Asp Lys Cys
```

1012

```
                    85                    90                    95
Cys Pro Asp Tyr Glu Ser Phe Cys Ala Glu Val His Asn Pro Thr Ser
                100                   105                   110
Pro Pro Ser Ser Lys Lys Ala Pro Pro Pro Ser Gly Ala Ser Gln Thr
                115                   120                   125
Ile Lys Ser Thr Thr Lys Arg Ser Pro Lys Pro Pro Asn Lys Lys Lys
        130                   135                   140
Thr Lys Lys Val Ile Glu Ser Glu Glu Ile Thr Glu Glu His Ser Val
145                   150                   155                   160
Ser Glu Asn Gln Glu Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
                165                   170                   175
Ser Thr Ile Trp Lys Ile Lys Ser Ser Lys Asn Ser Ala Ala Asn Arg
                180                   185                   190
Glu Leu Gln Lys Lys Leu Lys Val Lys Asp Asn Lys Lys Asn Arg Thr
                195                   200                   205
Lys Lys Lys Pro Thr Pro Lys Pro Pro Val Val Asp Glu Ala Gly Ser
        210                   215                   220
Gly Leu Asp Asn Gly Asp Phe Lys Val Thr Thr Pro Asp Thr Ser Thr
225                   230                   235                   240
Thr Gln His Asn Lys Val Ser Thr Ser Pro Lys Ile Thr Thr Ala Lys
                245                   250                   255
Pro Ile Asn Pro Arg Pro Ser Leu Pro Pro Asn Ser Asp Thr Ser Lys
                260                   265                   270
Glu Thr Ser Leu Thr Val Asn Lys Glu Thr Thr Val Glu Thr Lys Glu
                275                   280                   285
Thr Thr Thr Thr Asn Lys Gln Thr Ser Thr Asp Gly Lys Glu Lys Thr
        290                   295                   300
Thr Ser Ala Lys Glu Thr Gln Ser Ile Glu Lys Thr Ser Ala Lys Asp
305                   310                   315                   320
Leu Ala Pro Thr Ser Lys Val Leu Ala Lys Pro Thr Pro Lys Ala Glu
                325                   330                   335
Thr Thr Thr Lys Gly Pro Ala Leu Thr Thr Pro Lys Glu Pro Thr Pro
                340                   345                   350
Thr Thr Pro Lys Glu Pro Ala Ser Thr Thr Pro Lys Glu Pro Thr Pro
                355                   360                   365
Thr Thr Ile Lys Ser Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
        370                   375                   380
Thr Thr Lys Ser Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr
385                   390                   395                   400
Thr Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr
                405                   410                   415
Thr Lys Glu Pro Ala Pro Thr Thr Thr Lys Ser Ala Pro Thr Thr Pro
                420                   425                   430
Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro
        435                   440                   445
Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Thr Pro Thr Thr Pro
        450                   455                   460
Lys Glu Pro Ala Pro Thr Thr Lys Glu Pro Ala Pro Thr Thr Pro Lys
465                   470                   475                   480
Glu Pro Ala Pro Thr Ala Pro Lys Lys Pro Ala Pro Thr Thr Pro Lys
                485                   490                   495
Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Thr Lys
                500                   505                   510
Glu Pro Ser Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Thr Lys
                515                   520                   525
Ser Ala Pro Thr Thr Thr Lys Glu Pro Ala Pro Thr Thr Thr Lys Ser
        530                   535                   540
Ala Pro Thr Thr Pro Lys Glu Pro Ser Pro Thr Thr Thr Lys Glu Pro
545                   550                   555                   560
```

```
Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro
              565                 570                 575
Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
              580                 585                 590
Ala Pro Thr Thr Thr Lys Lys Pro Ala Pro Thr Ala Pro Lys Glu Pro
              595                 600                 605
Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys Lys Leu
          610                 615                 620
Thr Pro Thr Thr Pro Glu Lys Leu Ala Pro Thr Thr Pro Glu Lys Pro
625                     630                 635                 640
Ala Pro Thr Thr Pro Glu Glu Leu Ala Pro Thr Thr Pro Glu Glu Pro
              645                 650                 655
Thr Pro Thr Thr Pro Glu Glu Pro Ala Pro Thr Thr Pro Lys Ala Ala
              660                 665                 670
Ala Pro Asn Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
          675                 680                 685
Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Thr
          690                 695                 700
Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr Thr Leu Lys Glu Pro
705                     710                 715                 720
Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys Glu Leu Ala Pro Thr
              725                 730                 735
Thr Thr Lys Glu Pro Thr Ser Thr Thr Ser Asp Lys Pro Ala Pro Thr
          740                 745                 750
Thr Pro Lys Gly Thr Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
          755                 760                 765
Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr
    770                 775                 780
Thr Leu Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys
785                     790                 795                 800
Glu Leu Ala Pro Thr Thr Thr Lys Gly Pro Thr Ser Thr Thr Ser Asp
              805                 810                 815
Lys Pro Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys
              820                 825                 830
Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro Glu
              835                 840                 845
Thr Pro Pro Pro Thr Thr Ser Glu Val Ser Thr Pro Thr Thr Thr Lys
    850                 855                 860
Glu Pro Thr Thr Ile His Lys Ser Pro Asp Glu Ser Thr Pro Glu Leu
865                     870                 875                 880
Ser Ala Glu Pro Thr Pro Lys Ala Leu Glu Asn Ser Pro Lys Glu Pro
              885                 890                 895
Gly Val Pro Thr Thr Lys Thr Pro Ala Ala Thr Lys Pro Glu Met Thr
              900                 905                 910
Thr Thr Ala Lys Asp Lys Thr Thr Glu Arg Asp Leu Arg Thr Thr Pro
          915                 920                 925
Glu Thr Thr Thr Ala Ala Pro Lys Met Thr Lys Glu Thr Ala Thr Thr
    930                 935                 940
Thr Glu Lys Thr Thr Glu Ser Lys Ile Thr Ala Thr Thr Thr Gln Val
945                     950                 955                 960
Thr Ser Thr Thr Thr Gln Asp Thr Thr Pro Phe Lys Ile Thr Thr Leu
              965                 970                 975
Lys Thr Thr Thr Leu Ala Pro Lys Val Thr Thr Thr Lys Lys Thr Ile
          980                 985                 990
Thr Thr Thr Glu Ile Met Asn Lys Pro Glu Glu Thr Ala Lys Pro Lys
          995                 1000                1005
Asp Arg Ala Thr Asn Ser Lys Ala Thr Thr Pro Lys Pro Gln Lys Pro
    1010                1015                1020
Thr Lys Ala Pro Lys Lys Pro Thr Ser Thr Lys Lys Pro Lys Thr Met
```

1014

```
       1025                  1030                  1035                  1040
  Pro Arg Val Arg Lys Pro Lys Thr Thr Pro Thr Pro Arg Lys Met Thr
                     1045                  1050                  1055
  Ser Thr Met Pro Glu Leu Asn Pro Thr Ser Arg Ile Ala Glu Ala Met
                 1060                  1065                  1070
  Leu Gln Thr Thr Thr Arg Pro Asn Gln Thr Pro Asn Ser Lys Leu Val
             1075                  1080                  1085
  Glu Val Asn Pro Lys Ser Glu Asp Ala Gly Gly Ala Glu Gly Glu Thr
         1090                  1095                  1100
  Pro His Met Leu Leu Arg Pro His Val Phe Met Pro Glu Val Thr Pro
  1105                  1110                  1115                  1120
  Asp Met Asp Tyr Leu Pro Arg Val Pro Asn Gln Gly Ile Ile Ile Asn
                     1125                  1130                  1135
  Pro Met Leu Ser Asp Glu Thr Asn Ile Cys Asn Gly Lys Pro Val Asp
                 1140                  1145                  1150
  Gly Leu Thr Thr Leu Arg Asn Gly Thr Leu Val Ala Phe Arg Gly His
             1155                  1160                  1165
  Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala Arg Arg
         1170                  1175                  1180
  Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr
  1185                  1190                  1195                  1200
  Arg Cys Asn Cys Glu Gly Lys Thr Phe Phe Phe Lys Asp Ser Gln Tyr
                     1205                  1210                  1215
  Trp Arg Phe Thr Asn Asp Ile Lys Asp Ala Gly Tyr Pro Lys Pro Ile
                 1220                  1225                  1230
  Phe Lys Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser
             1235                  1240                  1245
  Thr Ala Lys Tyr Lys Asn Trp Pro Glu Ser Val Tyr Phe Phe Lys Arg
         1250                  1255                  1260
  Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys Gln Glu Pro Val Gln Lys
  1265                  1270                  1275                  1280
  Cys Pro Gly Arg Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Thr
                     1285                  1290                  1295
  Asp Thr Gly   *
             1299
```

```
       <210> 1848
       <211> 103
       <212> PRT
       <213> Homo sapiens


       <400> 1848
  Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
   1                   5                  10                  15
  Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
                 20                  25                  30
  Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
             35                  40                  45
  Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
         50                  55                  60
  Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro
  65                  70                  75                  80
  Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
                 85                  90                  95
  Val Gln Ser Ala Pro Cys   *
             100     102
```

```
<210> 1849
<211> 50
<212> PRT
<213> Homo sapiens


<400> 1849
Met Ser Arg Phe Leu Leu Pro Arg Glu Gly Cys Leu Leu Ile Val Phe
1               5                   10                  15
Met Leu Cys Glu Lys Thr Leu Pro Phe Leu Phe Thr Leu Lys Glu Tyr
            20                  25                  30
Thr Phe Ile Pro Glu His Arg Thr Thr Asp Ile Asn Cys Val Asn Thr
        35                  40                  45
His Glu
    50



<210> 1850
<211> 84
<212> PRT
<213> Homo sapiens


<400> 1850
Met Arg Leu His Ser Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His
1               5                   10                  15
Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Met Leu Phe Ala Ile
            20                  25                  30
Tyr Phe Leu Cys Ile Ile Thr Ser Thr Trp Asn Leu Arg Thr Gln Gln
        35                  40                  45
Ser Lys Leu Val Leu Leu Leu Cys Gln Thr Val Ala Ile Met Tyr Pro
    50                  55                  60
Ser Phe His Ser Phe Ile Leu Ile Met Gly Ser Arg Lys Leu Lys Gln
65                  70                  75                  80
Thr Phe Leu Ser
            84



<210> 1851
<211> 51
<212> PRT
<213> Homo sapiens


<400> 1851
Met Ala Ala Cys Lys Leu Leu Lys His Leu Asn Gly Phe Ser Leu Leu
1               5                   10                  15
Leu Pro Arg Leu Glu Cys Asn Gly Val Ile Ser Val His Cys Asn Pro
            20                  25                  30
Leu Pro Pro Gly Phe Lys Arg Phe Ser Cys Pro Ser Leu Leu Ser Ser
        35                  40                  45
Trp Asp *
    50
```

```
    <210> 1852
    <211> 54
    <212> PRT
    <213> Homo sapiens


    <400> 1852
Met Lys Thr Lys Cys Lys Pro Asn Ile Thr Phe Phe Asn Thr Ile Ile
1               5                   10                  15
Cys Phe Phe Leu Thr Phe Leu Phe Cys Ile Tyr Ile Asp Ser Leu Leu
            20                  25                  30
Cys Thr Val Pro Lys Asn Pro Ala Gln Ala Val Gln Leu Asn Arg Asp
        35                  40                  45
His Thr Lys Val His  *
    50          53




    <210> 1853
    <211> 129
    <212> PRT
    <213> Homo sapiens


  . <400> 1853
Met Ala Val Val Arg Val Met Val. Val Val Arg Val Thr Ala Val Val
1               5                   10                  15
Arg Val Met Val Val Val Arg Val Val Val Val Arg Val Met Val Val
            20          .         25                  30
Val Arg Ile Thr Ala Val Leu Arg Val Met Val Val Val Arg Ile Met
        35                  40                  45
Ala Val Ile Arg Val Met Val Val Val Arg Val Thr Ala Ile Val Gly
    50          .         55                  60          .
Val Met Val Val Ile Arg Val Thr Ala Ile Val Ser Ile Met Val Val
65                  70                  75                  80
Val Arg Val Met Val Val Val Arg Val Met Val Val Ala Arg Pro Met
                85                  90                  95
Val Val Val Arg Val Met Ala Val Val Arg Val Met Ala Asp Ser Ala
            100                 105                 110
Leu Arg Ala Ile Cys Ser Ser Ser Leu Asn Val Thr Phe Ser Leu Glu
    115                 120                 125             128
 *




    <210> 1854
    <211> 190
    <212> PRT
    <213> Homo sapiens

    <221> misc_feature
    <222> (1)...(190)
    <223> Xaa = any amino acid or nothing


    <400> 1854
```

1017

```
Met Ser Cys Phe Gly Leu Leu Leu Gly Gly Leu Thr Pro Arg Val Leu
1               5                   10                  15
Ser Thr Glu Glu Gln Leu Pro Pro Gly Phe Pro Ser Ile Asp Met Gly
            20              25                  30
Pro Gln Leu Lys Val Val Glu Lys Ala Arg Thr Ala Thr Met Leu Cys
        35              40                  45
Ala Ala Gly Gly Asn Pro Asp Pro Glu Ile Ser Trp Phe Lys Asp Phe
    50              55                  60
Leu Pro Val Asp Pro Ala Thr Ser Asn Gly Arg Ile Lys Gln Leu Arg
65              70                  75                  80
Ser Gly Glu Gln Arg Ala Gly Val Lys Gly Pro Cys Arg Pro Gln Asn
                85                  90                  95
Lys Arg Leu Val Arg Ser Gln His Ser Leu Leu Pro Trp Ala Trp Ala
        100                 105                 110
Pro Pro Gly Leu Ser Gly Gly Tyr Leu Val Gly Trp Ala Gly Ser Tyr
        115                 120                 125
Cys Arg Cys Ala Trp Leu Arg Glu Glu Ser Ser Trp Leu Ala Val Pro
    130                 135                 140
Leu Pro Ser Ser Asp Cys Gln Thr Pro Asp Phe Gly Pro Val Leu Pro
145                 150                 155                 160
Leu Pro Ala His Val Met Cys Gln Cys Gly Gly Leu Phe Lys Gly Ala
                165                 170                 175
Leu Trp Met Leu Thr Leu Leu Leu Pro Cys Xaa Leu Ala  *
                180                 185                 189
```

```
        <210> 1855
        <211> 78
        <212> PRT
        <213> Homo sapiens


        <400> 1855
Met Val Val Ser Ala Trp Ile Gly Leu Glu Ala Thr Val Val Ala Ala
1               5                   10                  15
Cys Leu Ala Leu Leu Gly Ser Val Val Arg Glu Thr Ser Thr Ser Ala
            20              25                  30
Ser Pro Thr Pro Ala Ala Leu Arg Ala Ala Trp Thr Val Tyr Ser Ser
        35              40                  45
Pro Met Thr Thr Cys Val Phe Ala Val Val Pro Leu Leu Ala Gly Thr
    50              55                  60
Val Lys Pro Ser Ser Met Cys Val Pro Arg Cys Pro Ala  *
65              70                  75      77


        <210> 1856
        <211> 67
        <212> PRT
        <213> Homo sapiens


        <400> 1856
Met Thr Asn Trp Met Leu Leu Leu Ala Ser Arg Ile Phe Gln Ser Leu
1               5                   10                  15
Ala Ile Pro Lys Gln Leu Gly Leu Arg Arg Glu Met Pro Ser Gly Ser
            20              25                  30
Pro Thr Thr Asn Ser Ser Ser Gly Cys Ile Arg Asn Leu Glu Tyr Ser
```

```
        35                    40                    45
Thr Leu Met Gly Ser Glu Met Pro Met Ala Leu Ala Ala Glu Thr Trp
    50                    55                    60
Leu Leu  *
65  66
```

```
    <210> 1857
    <211> 107
    <212> PRT
    <213> Homo sapiens


    <400> 1857
Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala Ile Ile Phe
1                   5                   10                  15
Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala Thr Leu Gly
            20                  25                  30
Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala Gln Glu Asn
        35                  40                  45
Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly Ile Thr Gly
    50                  55                  60
Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val Met Ile Leu
65                  70                   75                  80
Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly Val Phe Ala
            85                  90                  95
Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
            100             105     107
```

```
    <210> 1858
    <211> 134
    <212> PRT
    <213> Homo sapiens


    <400> 1858
Met Ile Pro Pro Ala Ile Phe Trp Val Leu Ile Ile Phe Gly Trp Thr
1                   5                   10                  15
Leu Val Tyr Gly Phe Val Tyr Phe Thr Thr Gly Glu Thr Ile Met Asp
            20                  25                  30
Lys Leu Leu Arg Val Leu Tyr Trp Ile Leu Val Lys Thr Phe Phe Arg
        35                  40                  45
Glu Ile Ser Val Ser His Gln Glu Arg Ile Pro Lys Asp Lys Pro Val
    50                  55                  60
Met Leu Val Cys Ala Pro His Ala Asn Gln Phe Val Asp Gly Met Val
65                  70                   75                  80
Ile Ser Thr His Leu Asp Arg Lys Val Tyr Phe Val Gly Ala Ala Ser
            85                  90                  95
Ser Phe Arg Lys Tyr Lys Val Val Gly Leu Phe Met Lys Leu Met Ala
            100             105             110
Ser Ile Ile Ser Gly Glu Arg His Gln Asp Val Lys Lys Val Leu Thr
            115             120             125
Gly Met Ala Thr Glu Lys
    130             134
```

```
<210> 1859
<211> 82
<212> PRT
<213> Homo sapiens


<400> 1859
Met Phe Tyr Val Lys Ala Glu Phe Leu Val Ser Phe Ser Cys Pro Trp
1               5                   10                  15
Leu Thr Ala Cys Ala Leu Leu Met Ser Cys Ser Trp Phe Leu Thr Leu
            20                  25                  30
Thr Ile Leu Ser Val Lys Gly Gly Thr Pro Ala Gly Met Leu Asp Gln
        35                  40                  45
Lys Lys Gly Lys Phe Ala Trp Phe Ser His Ser Thr Glu Thr His Gly
    50                  55                  60
Asn Val Pro Leu Cys Ser Val Cys Val Asn Ala Cys Gly Cys Ile Pro
65                  70                  75                  80
Asp *
81



<210> 1860
<211> 46
<212> PRT
<213> Homo sapiens


<400> 1860
Met Pro Leu Ser Pro Leu Leu Phe His Leu Gly Pro Phe Pro Phe Lys
1               5                   10                  15
Ala Glu Ser Trp Leu Asn Phe Leu Pro Pro Pro Phe Phe Pro Leu Leu
            20                  25                  30
Pro Leu Leu Phe Leu Ala Lys Ala Glu Ile Gln Trp Ala *
        35                  40                  45



<210> 1861
<211> 128
<212> PRT
<213> Homo sapiens


<400> 1861
Met Thr Ile Phe Phe Ser Leu Leu Val Leu Ala Ile Cys Ile Ile Leu
1               5                   10                  15
Val His Leu Leu Ile Arg Tyr Arg Leu His Phe Leu Pro Glu Ser Val
            20                  25                  30
Ala Val Val Ser Leu Gly Ile Leu Met Gly Ala Val Ile Lys Ile Ile
        35                  40                  45
Glu Phe Lys Lys Leu Ala Asn Trp Lys Glu Glu Met Phe Arg Pro
    50                  55                  60
Asn Met Phe Phe Leu Leu Leu Leu Pro Pro Ile Ile Phe Glu Ser Gly
65                  70                  75                  80
Tyr Ser Leu His Lys Gly Asn Phe Phe Gln Asn Ile Gly Ser Ile Thr
            85                  90                  95
Leu Phe Ala Val Phe Gly Thr Ala Ile Ser Ala Phe Val Val Gly Gly
```

1020

```
              100                    105                    110
Gly Ile Tyr Phe Leu Gly Gln Ala His Val Ile Ser Lys Leu Asn Met
          115                    120                    125        128
```

```
     <210> 1862
     <211> 58
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1862
Met Trp Asp Met Leu Pro Trp Gly Ile Thr Trp Val Leu Leu Thr Thr
1                5                    10                    15
Gln Leu His Ser Pro Leu Leu Tyr Val Ile Gly Phe Thr Tyr Trp Val
          20                    25                    30
Cys Lys Gly Asp Arg Asp Ser Tyr Leu Glu Glu Asn Ser Arg Glu Thr
          35                    40                    45
Ala Ser Val Tyr Thr Ser Val Leu Ser *
50                    55        57
```

```
     <210> 1863
     <211> 50
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1863
Met Thr Gln Asp Leu Val Leu Thr Val Pro Phe Met Gly Cys Leu Leu
1                5                    10                    15
Ile Leu Val Asp Gly Leu Lys Pro Asn Arg Pro Ala Tyr Ile Gln Thr
          20                    25                    30
Gly Ser Gln Ala Thr Gln Ala Gly Val Gln Trp His Asn Tyr Gly Ser
          35                    40                    45
Leu *
49
```

```
     <210> 1864
     <211> 90
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1864
Met Val Ala Ser Ala Ala Gln Leu Leu Ser His Val Cys Leu Gly Gly
1                5                    10                    15
Leu Gln Leu Leu His Ser Phe Leu Ser Ser Leu Gln Leu Pro Ala Leu
          20                    25                    30
Leu Leu Lys Leu Ala Pro Glu Ala Leu Ala Leu Phe Thr Ser Ile Leu
          35                    40                    45
Lys Ser Ala Leu Val Val His Asp Phe Ser Thr Gln Leu Glu Leu Glu
          50                    55                    60
```

1021

```
Gly Val Glu Leu Leu Val Cys Ser Pro Leu Glu Ala Leu Gly Pro Leu
65                  70              75                  80
Leu Cys Leu Gly Glu Leu Gly Leu Gln Ala
                85              90
```

```
<210> 1865
<211> 125
<212> PRT
<213> Homo sapiens


<400> 1865
Met Arg Leu Gly Leu Leu Leu Leu Ala Arg His Trp Cys Ile Ala Gly
1               5               10                  15
Val Phe Pro Gln Lys Phe Asp Gly Asp Ser Ala Tyr Val Gly Met Ser
            20              25                  30
Asp Gly Asn Pro Glu Leu Leu Ser Thr Ser Gln Thr Tyr Asn Gly Gln
            35              40              45
Ser Glu Asn Asn Glu Asp Tyr Glu Ile Pro Pro Ile Thr Pro Pro Asn
        50              55                  60
Leu Pro Glu Pro Ser Leu Leu His Leu Gly Asp His Glu Ala Ser Tyr
65                  70              75                  80
His Ser Leu Cys His Gly Leu Thr Pro Asn Gly Leu Leu Pro Ala Tyr
                85              90                  95
Ser Tyr Gln Ala Met Asp Leu Pro Ala Ile Met Val Ser Asn Met Leu
            100             105                 110
Ala Gln Asp Ser His Leu Leu Ser Gly Gln Leu Pro Thr
            115             120                 125


<210> 1866
<211> 129
<212> PRT
<213> Homo sapiens


<400> 1866
Met Cys Phe Leu Asn Lys Leu Leu Leu Leu Ala Ala Leu Asp Trp Leu
1               5               10                  15
Phe Gln Ile Pro Thr Val Pro Glu Asp Leu Phe Phe Leu Glu Glu Gly
            20              25                  30
Pro Ser Tyr Ala Phe Glu Val Asp Thr Val Ala Pro Glu His Gly Leu
            35              40                  45
Asp Asn Ala Pro Val Val Asp Gln Gln Leu Leu Tyr Thr Cys Cys Pro
        50              55                  60
Tyr Ile Gly Glu Leu Arg Lys Leu Leu Ala Ser Trp Val Ser Gly Ser
65                  70              75                  80
Ser Gly Arg Ser Gly Gly Phe Met Arg Lys Ile Thr Pro Thr Thr Thr
                85              90                  95
Thr Ser Leu Gly Ala Gln Pro Ser Gln Thr Ser Gln Gly Leu Gln Ala
            100             105                 110
Gln Leu Ala Gln Ala Phe Phe His Asn Gln Pro Pro Ser Leu Arg Arg
            115             120                 125
Thr
129
```

```
<210> 1867
<211> 80
<212> PRT
<213> Homo sapiens


<400> 1867
Met Met Arg Leu Glu Lys Phe Val Thr Trp Ser Val Met Ala Leu Gly
1               5                   10                  15
Trp Phe Val Phe Arg Gln Gln Asn Cys Trp Ala Leu Trp Ser Lys Ser
            20                  25                  30
Val Leu Ile Ser Trp Ser Arg Pro Leu Thr Arg Ser Met Ser Asp Leu
        35                  40                  45
Arg Arg Lys Arg Thr Ala His Glu Arg Ala Lys Glu Leu Tyr Ser Ser
    50                  55                  60
Gly Glu Phe Ser Ser Gly Arg Lys Trp Gly Asp Asp Ala Pro Lys Glu
65                  70                  75                  80



<210> 1868
<211> 113
<212> PRT
<213> Homo sapiens


<400> 1868
Met Leu Val Trp Leu Tyr Gly Thr Ile Arg Trp Pro Ala Leu Gly Ala
1               5                   10                  15
Pro Arg Trp Trp Pro Trp Val Trp Pro Pro Gly Val Trp Ser Gly Ile
            20                  25                  30
Glu Thr Pro Ser Ser Thr Pro Arg Ala Arg Ser Leu Arg Gly Thr Gly
        35                  40                  45
Gly Ala Val Thr Arg Arg Thr Gly Ser Ser Phe Pro Trp Thr Thr Thr
    50                  55                  60
Thr Arg Pro Ser Ser Trp Trp Thr Thr Ala His Thr Ala Ala Trp Gly
65                  70                  75                  80
Ala Arg Thr Ala Ser Ala Cys Ala Trp Ser Pro Thr Ser His Ser Lys
                85                  90                  95
Thr Arg Pro Trp Gln Gly Leu Glu Leu Thr Ser Leu Ala Cys Ser Ser
            100                 105                 110     112
    *



<210> 1869
<211> 72
<212> PRT
<213> Homo sapiens


<400> 1869
Met Phe Leu Trp Val Lys Arg Leu Leu Phe Ala Ala Ser Leu Leu Ala
1               5                   10                  15
```

```
Ser Asp Ser Ser Thr Ile Leu Cys Ser Arg Asp Leu Ile Leu Glu Ser
            20              25                      30
Ile Ala Leu Ile Ile Ala Phe Cys Ser Leu Arg Ile Leu Pro Phe Ser
            35              40                      45
Trp Ala Ser Ser Ser Cys Leu Cys Ile Met Phe Ser Ser Val Ser Leu
        50              55                      60
Ser Ala Arg Ser Phe Phe Ile  *
65                  70  71
```

```
        <210> 1870
        <211> 197
        <212> PRT
        <213> Homo sapiens


        <400> 1870
Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
1               5                   10                      15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
            20              25                      30
Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
            35              40                      45
Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
        50              55                      60
Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn
65                  70                  75                      80
Leu Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val
                85                  90                      95
Thr Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg
            100             105                     110
Phe Ser Ser Leu Gln His Thr Thr Leu Lys Pro Pro Asp Val Thr Cys
            115             120                     125
Ile Ser Lys Val Arg Ser Ile Gln Met Ile Val His Pro Thr Pro Thr
        130             135                     140
Pro Ile Arg Ala Gly Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe
145             150                     155                     160
His Asp Leu Phe Tyr His Leu Glu Leu Gln Val Asn Arg Thr Tyr Gln
                165                 170                     175
Met Val Ser Val Cys Cys Thr Leu Val Phe Leu Cys Leu Gly Ser Leu
            180                 185                     190
Phe Pro Pro Asn  *
        195 196


        <210> 1871
        <211> 75
        <212> PRT
        <213> Homo sapiens


        <400> 1871
Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe
1               5                   10                      15
Cys Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp
            20              25                      30
Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg
```

```
            35                  40                  45
Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly
      50                  55                  60
Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val
65                  70                  75
```

```
       <210> 1872
       <211> 84
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1872
Met Pro Phe Ser Thr Cys Thr Ala Leu Pro Ser Trp Ala Thr Leu Ser
1                   5                  10                  15
Thr Trp Ser Trp Thr Pro Lys Val Ser Leu Ala Gly Glu Glu Arg Gly
              20                  25                  30
Glu Thr Cys Gln Pro Asp Pro Phe Pro Pro His Pro Ser Cys Ser Val
      35                  40                  45
Gly Arg Thr Pro Pro His Ser Ser Leu Gly Ser Pro Pro Thr Thr Leu
      50                  55                  60
Phe Leu Ser Pro Leu Leu Arg Val Glu Ser Arg Gly Ala Lys Cys Val
65                  70                  75                  80
Val Cys Cys    *
       83
```

```
       <210> 1873
       <211> 51
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1873
Met Cys Gly Ser Pro Glu Arg Leu Cys Val Arg Cys Ala Arg Val Cys
1                   5                  10                  15
Ala Val Phe Met Arg Ala Leu Cys Val Val Cys Val Tyr Leu Arg Arg
              20                  25                  30
Arg Ile Lys Tyr Glu Arg Phe Leu Gly Trp Glu Leu Arg Cys Lys Ile
      35                  40                  45
Trp Gly    *
   50
```

```
       <210> 1874
       <211> 503
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1874
Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
1                   5                  10                  15
Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
              20                  25                  30
```

1025

```
Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
        35                  40                  45
Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
    50                  55                  60
Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
65                  70                  75                  80
Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
                85                  90                  95
Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
                100                 105                 110
Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
        115                 120                 125
Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
    130                 135                 140
Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
145                 150                 155                 160
Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
                165                 170                 175
Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
            180                 185                 190
Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
    195                 200                 205
Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
    210                 215                 220
Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
225                 230                 235                 240
Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
            245                 250                 255
Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
        260                 265                 270
Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
    275                 280                 285
Gly Trp Leu Pro Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
    290                 295                 300
Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
305                 310                 315                 320
Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
                325                 330                 335
Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
            340                 345                 350
Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
        355                 360                 365
Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
    370                 375                 380
Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
385                 390                 395                 400
Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
                405                 410                 415
Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser
            420                 425                 430
Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe
        435                 440                 445
Arg Glu Ile Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro
    450                 455                 460
Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu
465                 470                 475                 480
His Val Lys Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His
                485                 490                 495
Asp Gly Cys Cys Ser Leu  *
```

1026

500   502

```
<210> 1875
<211> 158
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(158)
<223> Xaa = any amino acid or nothing
```

```
<400> 1875
Met Xaa Pro Pro Thr Arg Pro Arg Thr Arg Gly Val Gly Ile Phe Tyr
1               5                   10                  15
Phe Val Ile Tyr Ile Ile Ile Ser Phe Leu Val Val Val Asn Met Tyr
                20                  25                  30
Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala Thr Glu Glu Ser Thr
            35                  40                  45
Glu Pro Leu Ser Glu Asp Asp Phe Glu Met Phe Tyr Glu Val Trp Glu
        50                  55                  60
Lys Phe Asp Pro Asp Ala Thr Gln Phe Ile Glu Phe Ser Lys Leu Ser
65                  70                  75                  80
Asp Phe Ala Ala Ala Leu Asp Pro Pro Leu Leu Ile Ala Lys Pro Asn
                85                  90                  95
Lys Val Gln Leu Ile Ala Met Asp Leu Pro Met Val Ser Gly Asp Arg
            100                 105                 110
Ile His Cys Leu Asp Ile Leu Phe Ala Phe Thr Lys Arg Val Leu Gly
        115                 120                 125
Glu Ser Gly Glu Met Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe
    130                 135                 140
Met Ser Ala Asn Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr
145                 150                 155     158
```

```
<210> 1876
<211> 106
<212> PRT
<213> Homo sapiens
```

```
<400> 1876
Met Gly Asn Arg Ala Val Ile Ile Ala Arg Gln Leu Ser Ser Val His
1               5                   10                  15
Thr Leu Ile Cys Asn Phe Phe Trp Leu Leu Leu Arg Thr Thr Gly Gly
                20                  25                  30
Asp Leu Asp Ser Leu Lys Cys Ser Tyr Glu Ser Ile Gly Leu Asn Ser
            35                  40                  45
Ile Ser Thr His Glu Phe Ile Cys Thr Trp Gln Arg Arg Leu Asn Phe
        50                  55                  60
Ser Phe Val Met Ser Phe Lys Pro Leu Phe Arg Ala Ser Pro His Ser
65                  70                  75                  80
Tyr Leu Leu Ile Ile Gly Ser Gln Leu His Glu Thr Phe Asn Leu Gly
                85                  90                  95
Ser Ile Ser Ser Glu Glu Lys Cys Ser *
                100                 105
```

```
<210> 1877
<211> 241
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(241)
<223> Xaa = any amino acid or nothing


<400> 1877
Met Leu Trp Ala Leu Trp Pro Arg Trp Leu Ala Asp Lys Met Leu Pro
1               5                   10                  15
Leu Leu Gly Ala Val Leu Leu Gln Lys Arg Glu Lys Arg Gly Pro Leu
            20                  25                  30
Trp Arg His Trp Arg Arg Glu Thr Tyr Pro Tyr Tyr Asp Leu Gln Val
            35                  40                  45
Lys Val Leu Arg Ala Thr Asn Ile Arg Gly Thr Asp Leu Leu Ser Lys
    50                  55                  60
Ala Asp Cys Tyr Val Gln Leu Trp Leu Pro Thr Ala Ser Pro Ser Pro
65                  70                  75                  80
Ala Gln Thr Arg Ile Val Ala Asn Cys Ser Asp Pro Glu Trp Asn Glu
                85                  90                  95
Thr Phe His Tyr Gln Ile His Gly Ala Val Lys Asn Val Leu Glu Leu
                100                 105                 110
Thr Leu Tyr Asp Lys Asp Ile Leu Gly Ser Asp Gln Leu Ser Leu Leu
        115                 120                 125
Leu Phe Asp Leu Arg Ser Leu Lys Cys Gly Gln Pro His Lys His Thr
    130                 135                 140
Phe Pro Leu Asn His Gln Asp Ser Gln Glu Leu Gln Val Glu Phe Val
145                 150                 155                 160
Leu Glu Lys Ser Gln Glu Pro Ala Ser Glu Val Ile Thr Asn Gly Val
                165                 170                 175
Leu Gly Ala His Pro Trp Leu Arg Met Lys Gly Met Ile Leu Gly Glu
                180                 185                 190
Gly Arg Ala Pro Arg Gln Gln His Gly Gln Ser Trp Glu Gly Gly Val
        195                 200                 205
Gly Pro Ser Pro Leu Ser Xaa Xaa Xaa Asn Thr Gly Gly Lys Ile Val
    210                 215                 220
Gly Phe Trp Glu Glu Met Ala Asn Gly Thr Gly Ala Pro Pro Arg Pro
225                 230                 235                 240
Pro
241



<210> 1878
<211> 50
<212> PRT
<213> Homo sapiens



<400> 1878
Met Leu Leu Met Leu Leu Phe Arg Cys Cys Ser Ser Lys Asp Leu Trp
1               5                   10                  15
Pro Val Leu Ile Ala His Leu Val Pro Gln Gly Gly Gln Glu Gly Asn
```

```
                    20                          25                          30
Val Gly Glu Gln Thr Lys Gly Lys Ser Asn Arg Val Leu Pro Val Phe
            35                          40                          45
Leu *
49
```

```
        <210> 1879
        <211> 56
        <212> PRT
        <213> Homo sapiens


        <400> 1879
Met Cys Ser Ala Phe Ser Ser Phe Trp Trp Val Pro Pro Leu Ala Gly
1               5                          10                          15
Ser Gly Val Lys Leu Gln Thr Phe Thr Ala Ser Val Thr Ala His Lys
            20                          25                          30
Arg Ser Thr Asp Pro Lys Ser Glu Gln Gln Leu Asp Leu Ser Gln Arg
        35                          40                          45
Thr Lys Glu Gln Ser Leu Thr Lys
        50                      55  56
```

```
        <210> 1880
        <211> 161
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
        <222> (1)...(161)
        <223> Xaa = any amino acid or nothing


        <400> 1880
Met Pro Ser Ala Ser Leu Leu Val Asn Leu Leu Ser Ala Leu Leu Ile
1               5                          10                          15
Leu Phe Val Phe Gly Glu Thr Glu Ile Arg Phe Thr Gly Gln Thr Glu
            20                          25                          30
Phe Val Val Asn Glu Thr Ser Thr Thr Val Ile Arg Leu Ile Ile Glu
        35                          40                          45
Arg Ile Gly Glu Pro Ala Asn Val Thr Ala Ile Val Ser Leu Tyr Gly
        50                      55                          60
Glu Asp Ala Gly Asp Phe Phe Asp Thr Tyr Ala Ala Ala Phe Ile Pro
65                      70                          75                          80
Ala Gly Glu Thr Asn Arg Thr Val Tyr Ile Ala Val Cys Asp Asp Asp
                85                          90                          95
Leu Pro Glu Pro Asp Glu Thr Phe Ile Phe His Leu Thr Leu Gln Lys
            100                         105                         110
Pro Ser Ala Asn Val Lys Leu Gly Trp Pro Arg Thr Val Thr Val Thr
        115                         120                         125
Ile Leu Ser Asn Gly Gln Met Ala Phe Trp Glu Phe Ile Phe Ile Leu
        130                         135                         140
Asn Ile Gly Leu Pro Pro Pro Ile Pro Pro Ser Gly Xaa Leu Lys Ala
145                     150                         155                         160
Pro
161
```

```
<210> 1881
<211> 130
<212> PRT
<213> Homo sapiens


<400> 1881
Met Gly Ile Tyr Gln Met Tyr Leu Cys Phe Leu Leu Ala Val Leu Leu
1                   5                   10                  15
Gln Leu Tyr Val Ala Thr Glu Ala Ile Leu Ile Ala Leu Val Gly Ala
            20                  25                  30
Thr Pro Ser Tyr His Trp Asp Leu Ala Glu Leu Leu Pro Asn Gln Ser
        35                  40                  45
His Gly Asn Gln Ser Ala Gly Glu Asp Gln Ala Phe Gly Asp Trp Leu
    50                  55                  60
Leu Thr Ala Asn Gly Ser Glu Ile His Lys His Val His Phe Ser Ser
65                  70                  75                  80
Ser Phe Thr Ser Ile Ala Ser Glu Trp Phe Leu Ile Ala Asn Arg Ser
                85                  90                  95
Tyr Lys Val Ser Ala Ala Ser Ser Phe Phe Phe Ser Gly Val Phe Val
            100                 105                 110
Gly Val Ile Ser Phe Gly Gln Leu Ser Asp Arg Phe Gly Arg Lys Lys
        115                 120                 125
Val Tyr
130
```

```
<210> 1882
<211> 108
<212> PRT
<213> Homo sapiens


<400> 1882
Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
1                   5                   10                  15
Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Asn Cys Ser
            20                  25                  30
Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
        35                  40                  45
Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
    50                  55                  60
Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
65                  70                  75                  80
Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
                85                  90                  95
Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys
            100                 105         108
```

```
<210> 1883
<211> 88
<212> PRT
<213> Homo sapiens
```

1030

```
     <400> 1883
Met Leu Phe Tyr Leu Val Ser Val Cys Leu Cys Val Ala Val Ile Val
 1               5                  10                  15
Ala Phe Gln Leu Thr Ala Phe Thr Phe Arg Lys Asn Leu Ala Ala Thr
            20                  25                  30
Ala Leu Leu Leu Ser Leu Phe Gly Tyr Ala Thr Leu Pro Trp Met Tyr
        35                  40                  45
Leu Met Ser Arg Ile Phe Ser Ser Ser Asp Val Ala Phe Ile Ser Tyr
    50                  55                  60
Val Ser Leu Asn Phe Ile Phe Gly Leu Cys Thr Met Leu Ile Thr Ile
65                  70                  75                  80
Met Pro Arg Leu Leu Ala Ile Ile
            85          88
```

```
     <210> 1884
     <211> 116
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1884
Met Cys Trp Ala Arg Cys Trp Thr Arg Trp Asn Thr Cys Thr Ile Trp
 1               5                  10                  15
Thr Ser Ser Thr Asp Pro Phe Arg Lys Cys Trp Met Ala Pro Glu Ala
            20                  25                  30
Leu Asn Phe Ser Phe Ser His Lys Ser Asp Ile Trp Ser Leu Gly Cys
        35                  40                  45
Ile Ile Leu Asp Met Thr Ser Cys Ser Phe Met Asp Gly Thr Glu Ala
    50                  55                  60
Met His Leu Arg Lys Ser Leu Arg Gln Ser Pro Gly Ser Leu Lys Ala
65                  70                  75                  80
Val Leu Lys Thr Met Glu Glu Lys Gln Ile Pro Asp Val Glu Thr Phe
            85                  90                  95
Arg Asn Leu Leu Pro Leu Met Leu Gln Ile Asp Pro Ser Asp Arg Ile
            100                 105                 110
Thr Ile Lys  *
        115
```

```
     <210> 1885
     <211> 115
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1885
Met Ser Glu Arg Val Glu Arg Asn Trp Ser Thr Gly Gly Trp Leu Leu
 1               5                  10                  15
Ala Leu Cys Leu Ala Trp Leu Trp Thr His Leu Thr Leu Ala Ala Leu
            20                  25                  30
Gln Pro Pro Thr Ala Thr Val Leu Val Gln Gln Gly Thr Cys Glu Val
        35                  40                  45
Ile Ala Ala His Arg Cys Cys Asn Arg Asn Arg Ile Glu Glu Arg Ser
    50                  55                  60
```

```
Gln Thr Val Lys Cys Ser Cys Phe Ser Gly Gln Val Ala Gly Thr Thr
65                  70                  75                  80
Arg Ala Lys Pro Ser Cys Val Asp Asp Leu Leu Leu Ala Ala His Cys
                85                  90                  95
Ala Arg Arg Asp Pro Arg Ala Ala Leu Arg Leu Leu Leu Pro Gln Pro
            100                 105                 110
Pro Ser Ser
            115
```

```
        <210> 1886
        <211> 357
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1886
Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
1               5                   10                  15
Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
            20                  25                  30
Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
        35                  40                  45
Gly Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
    50                  55                  60
Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
65                  70                  75                  80
Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
                85                  90                  95
Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
            100                 105                 110
Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
            115                 120                 125
Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
    130                 135                 140
Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
145                 150                 155                 160
Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
                165                 170                 175
Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
            180                 185                 190
Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
        195                 200                 205
Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
    210                 215                 220
Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
225                 230                 235                 240
Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
                245                 250                 255
Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
            260                 265                 270
Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
        275                 280                 285
Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
    290                 295                 300
Gly Gln Leu Arg Gln Asp Val Glu Asp Arg Leu His Ala Gln His Phe
305                 310                 315                 320
Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys
```

```
                       325                    330                    335
Leu Lys Arg Leu His Lys Ala Gln Glu Ala Pro Gly Thr Asn Gly Ser
              340                    345                    350
Leu Val Leu Glu Arg
          355     357
```

```
     <210> 1887
     <211> 86
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1887
Met Leu Cys Ser Arg Leu Gly Thr Thr Ala Ser Trp Arg Arg Leu Gly
 1               5                  10                  15
Ile Arg Ala Trp Ala Pro Leu Leu Leu Phe Pro Trp Asp Trp His
            20                  25                  30
Phe Ile Leu Ser Phe Ser Ser Arg Pro Trp Ala Gly Thr Leu Leu Ala
        35                  40                  45
Pro His Asp Val Ile Met Gly Ser Ser Thr Phe Pro Gln Ser Cys Gln
    50                  55                  60
Ala Glu Ala Gly Pro Arg His Ala Trp Pro Thr Gly Arg Phe Ser Arg
65                  70                  75                  80
Arg Leu Arg Arg Val *
                 85
```

```
     <210> 1888
     <211> 48
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1888
Met Ser Val Arg Arg Ala Leu Thr Pro Ser Ala Leu Gly Leu Val Phe
 1               5                  10                  15
Ile Leu Gln Ile Phe Ala His Gly Leu Pro Gly Pro Gly Pro Cys His
            20                  25                  30
Leu Gly Pro Gly Ile Cys Leu Arg Ile Cys Gln Cys Ala Leu Asn *
        35                  40                  45      47
```

```
     <210> 1889
     <211> 79
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 1889
Met Ser Val Val Met Leu Ser Tyr Leu Leu Ser Ala Phe Phe Ser Gln
 1               5                  10                  15
Ala Asn Thr Ala Ala Leu Cys Thr Ser Leu Val Tyr Met Ile Ser Phe
            20                  25                  30
Leu Pro Tyr Ile Val Leu Leu Val Leu His Asn Gln Leu Ser Phe Val
        35                  40                  45
```

```
Asn Gln Thr Phe Leu Cys Leu Leu Ser Thr Thr Ala Phe Gly Gln Gly
    50                  55                  60
Val Phe Phe Ile Thr Phe Leu Glu Gly Gln Glu Thr Gly Ile His
65                  70                  75              79



    <210> 1890
    <211> 251
    <212> PRT
    <213> Homo sapiens



    <400> 1890
Met Asn Val Ile Tyr Phe Pro Leu His Leu Phe Val Val Tyr Ser Arg
1                   5                   10                  15
Ala Tyr Thr Ser Leu Val Leu Val Gly Cys Thr Asn Leu Cys Ala Val
                20                  25                  30
Leu Phe Ala Arg Cys Leu Asp Asp His Leu Val Ser Leu Arg Met Ser
            35                  40                  45
Gly Ser Arg Lys Glu Phe Asp Val Lys Gln Ile Leu Lys Ile Arg Trp
        50                  55                  60
Arg Trp Phe Gly His Gln Ala Ser Ser Pro Asn Ser Thr Val Asp Ser
65                  70                  75                  80
Gln Gln Gly Glu Phe Trp Asn Arg Gly Gln Thr Gly Ala Asn Gly Gly
                85                  90                  95
Arg Lys Phe Leu Asp Pro Cys Ser Leu Gln Leu Pro Leu Ala Ser Ile
            100                 105                 110
Gly Tyr Arg Arg Ser Ser Gln Leu Asp Phe Gln Asn Ser Pro Ser Trp
        115                 120                 125
Pro Met Ala Ser Thr Ser Glu Val Pro Ala Phe Glu Phe Thr Ala Glu
    130                 135                 140
Asp Cys Gly Gly Ala His Trp Leu Asp Arg Pro Glu Val Asp Asp Gly
145                 150                 155                 160
Thr Ser Glu Glu Glu Asn Glu Ser Asp Ser Ser Ser Cys Arg Thr Ser
                165                 170                 175
Asn Ser Ser Gln Thr Leu Ser Ser Cys His Thr Met Glu Pro Cys Thr
            180                 185                 190
Ser Asp Glu Phe Phe Gln Ala Leu Asn His Ala Glu Gln Thr Phe Lys
        195                 200                 205
Lys Met Glu Asn Tyr Leu Arg His Lys Gln Leu Cys Asp Val Ile Leu
    210                 215                 220
Val Ala Gly Asp Arg Arg Ile Pro Ala His Arg Leu Val Leu Ser Ser
225                 230                 235                 240
Val Ser Asp Tyr Phe Ala Gly Met Phe Thr Asn
            245                 250 251



    <210> 1891
    <211> 117
    <212> PRT
    <213> Homo sapiens

    <221> misc_feature
    <222> (1)...(117)
    <223> Xaa = any amino acid or nothing
```

```
      <400> 1891
Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu Phe Ala Xaa Trp Met
1               5                   10                  15
Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu Arg Gln Asn Glu Gln
            20                  25                  30
Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr Glu Pro Tyr Leu Ala
        35                  40                  45
Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly Thr Thr Tyr Asp Phe
    50                  55                  60
Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys Pro Leu Cys Val Glu
65                  70                  75                  80
Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu Trp Ile Thr Ile Pro
                85                  90                  95
Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile Leu Leu Val Asn Leu
            100                 105                 110
Leu Val Ala Met Phe
            115     117


      <210> 1892
      <211> 103
      <212> PRT
      <213> Homo sapiens


      <400> 1892
Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
1               5                   10                  15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
            20                  25                  30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
        35                  40                  45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
    50                  55                  60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
65                  70                  75                  80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
                85                  90                  95
Asp Lys Gly Trp Asp Leu   *
            100     102


      <210> 1893
      <211> 77
      <212> PRT
      <213> Homo sapiens

      <221> misc_feature
      <222> (1)...(77)
      <223> Xaa = any amino acid or nothing


      <400> 1893
Met Leu Ala Ala Gly Val Thr Ser Ala Ala Gly Leu Ala Leu Ala Phe
1               5                   10                  15
Ser Gly Asp Tyr Leu Lys Ala Phe Ile Asp Val Pro Thr Val Pro Ala
            20                  25                  30
```

1035

```
Ala Leu Val Phe Leu Leu Leu Val Gly Leu Leu Asn Ala Arg Gly Ile
         35                      40                  45
Lys Glu Ser Met Arg Ala Xaa Val Val Met Thr Val Val Glu Val Thr
     50                      55                  60
Gly Leu Val Leu Val Val Val Leu Ala Leu Val Pro Gly
65                      70                  75      77
```

```
        <210> 1894
        <211> 46
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1894
Met Trp Ala Ala Ser Trp Cys Leu Ser Leu Trp Cys Cys Trp Val Trp
 1               5                  10                  15
Ser Gly Thr Ser Glu Ser Ile Thr Ala Asn Ser Ser Gln His Leu Pro
             20                  25                  30
Leu Ser Pro Trp Trp Glu Ser Pro Ser Ser Ser Ala Ser  *
         35                  40                  45
```

```
        <210> 1895
        <211> 162
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1895
Met Thr Ala Trp Arg Arg Phe Gln Ser Leu Leu Leu Leu Leu Gly Leu
 1               5                  10                  15
Leu Val Leu Cys Ala Arg Leu Leu Thr Ala Ala Lys Gly Gln Asn Cys
             20                  25                  30
Gly Gly Leu Val Gln Gly Pro Asn Gly Thr Ile Glu Ser Pro Gly Phe
         35                  40                  45
Pro His Gly Tyr Pro Asn Tyr Ala Asn Cys Thr Trp Ile Ile Ile Thr
     50                  55                  60
Gly Glu Arg Asn Arg Ile Gln Leu Ser Phe His Thr Phe Ala Leu Glu
65                  70                  75                  80
Glu Asp Phe Asp Ile Leu Ser Val Tyr Asp Gly Gln Pro Gln Gln Gly
             85                  90                  95
Asn Leu Lys Val Arg Leu Ser Gly Phe Gln Leu Pro Ser Ser Ile Val
             100                 105                 110
Ser Thr Gly Ser Ile Leu Thr Leu Trp Phe Thr Thr Asp Phe Ala Val
         115                 120                 125
Ser Ala Gln Gly Phe Lys Ala Leu Tyr Glu Gly Arg Arg Leu Val Val
     130                 135                 140
Phe Cys Thr Cys Ile His Cys Pro Asn Asp Leu Ile His Ala Thr Leu
145                 150                 155                 160
Asp  *
161
```

```
        <210> 1896
        <211> 60
```

```
        <212> PRT
        <213> Homo sapiens


        <400> 1896
Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro
1               5                   10                  15
Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly
            20                  25                  30
Leu Asn Ser Ile Lys Val Arg Thr Lys Leu Asp Cys Phe Gly Ile Cys
        35                  40                  45
Leu Thr Glu Tyr Lys Lys Arg Ile His Glu Asp  *
    50                  55                  59



        <210> 1897
        <211> 49
        <212> PRT
        <213> Homo sapiens


        <400> 1897
Met Leu Ile Val Gln Phe Ile Phe Glu Leu Val Ser Ser Ile Leu Val
1               5                   10                  15
Ser Asn Val Lys Asp Met Leu Asp Phe Glu Ser Gly Phe Cys Ser Lys
            20                  25                  30
Ile Leu Ser Tyr Phe Phe Ser Ser Pro Arg Tyr Arg Leu Pro Phe Leu
        35                  40                  45                  48
    *



        <210> 1898
        <211> 52
        <212> PRT
        <213> Homo sapiens


        <400> 1898
Met Thr Trp Ala Gly Leu Phe Leu Phe Leu Arg Val Gly Ser Pro Asn
1               5                   10                  15
Arg Lys Trp Ala Ala Ser Gly Gly Ser Gly Gly Asp Gly Val Asp Gly
            20                  25                  30
Glu Asp Trp Ser Leu Ala Arg Ser His Pro Gln Ser Pro Leu Leu Leu
        35                  40                  45
Leu Leu Leu  *
    50  51



        <210> 1899
        <211> 112
        <212> PRT
        <213> Homo sapiens


        <400> 1899
```

```
Met Ala Ile Pro Ser Val Val Ile Ser Gly Leu Ala Val Leu Leu Val
 1               5                  10                  15
Ala Met Ala Leu Pro Ser Leu Ser Gly Ser Glu Ala Ile Lys Ser Met
            20                  25                  30
Thr Ile Pro Gly Leu Val Val Pro Thr Val Val Arg Phe Met Ala Val
        35                  40                  45
Pro Gly Leu Ile Val Pro Ala Val Ala Lys Phe Thr Val Leu Pro Asp
    50                  55                  60
Leu Thr Val Pro Thr Glu Asp Lys Ser Leu Ala Val Pro Ser Leu Ile
65                  70                  75                  80
Ser Arg Ala Gly Asn Ser Val Pro Val Ser Ser Trp Asp Val Phe Gly
                85                  90                  95
Val Ala Lys Leu Ile Ala Lys Leu Gly Leu Leu Ala Ala Ile Val Ala
                100                 105                 110     112
```

```
        <210> 1900
        <211> 128
        <212> PRT
        <213> Homo sapiens


        <400> 1900
Met Arg Val Tyr Gly Thr Cys Thr Leu Val Leu Met Ala Leu Val Val
 1               5                  10                  15
Phe Val Gly Val Lys Tyr Val Asn Lys Leu Ala Leu Val Phe Leu Ala
            20                  25                  30
Cys Val Val Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser
        35                  40                  45
Ala Phe Asp Pro Pro Asp Ile Pro Val Cys Leu Leu Gly Asn Arg Thr
    50                  55                  60
Leu Ser Arg Arg Ser Phe Asp Ala Cys Val Lys Ala Tyr Gly Ile His
65                  70                  75                  80
Asn Asn Ser Ala Thr Ser Ala Leu Trp Gly Leu Phe Cys Asn Gly Ser
                85                  90                  95
Gln Pro Ser Ala Ala Cys Asp Glu Tyr Phe Ile Gln Asn Asn Val Thr
                100                 105                 110
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Val Phe Leu Glu Asn
        115                 120                 125         128
```

```
        <210> 1901
        <211> 68
        <212> PRT
        <213> Homo sapiens


        <400> 1901
Met Glu Leu Leu Lys Leu Leu Leu Thr Cys Phe Ser Glu Ala Met Tyr
 1               5                  10                  15
Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp Val Gln Phe
            20                  25                  30
Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe Thr Ser Leu
```

```
                35                    40                   45
Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Glu Tyr Gly Ile Pro Tyr
        50                    55                   60
Asn His Leu Tyr
65              68
```

```
        <210> 1902
        <211> 127
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1902
Met Tyr Phe Ser Ser Leu Phe Pro Tyr Val Val Leu Ala Cys Phe Leu
1                   5                   10                   15
Val Arg Gly Leu Leu Leu Arg Gly Ala Val Asp Gly Ile Leu His Met
            20                   25                   30
Phe Thr Pro Lys Leu Asp Lys Met Leu Asp Pro Gln Val Trp Arg Glu
        35                   40                   45
Ala Ala Thr Gln Val Phe Ser Ala Leu Gly Leu Gly Phe Gly Gly Val
        50                   55                   60
Ile Ala Phe Ser Ser Tyr Asn Lys Gln Asp Asn Asn Cys His Phe Asp
65                   70                   75                   80
Ala Ala Leu Val Ser Phe Ile Asn Phe Phe Thr Ser Val Leu Ala Thr
            85                   90                   95
Leu Val Val Phe Ala Val Leu Gly Phe Lys Ala Asn Ile Met Asn Glu
            100                  105                  110
Lys Cys Val Val Glu Asn Ala Glu Lys Ile Leu Gly Tyr Arg Val
        115                  120                  125     127
```

```
        <210> 1903
        <211> 83
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1903
Met Trp Lys Phe Val Ser Pro Leu Cys Met Ala Val Leu Thr Thr Ala
1                   5                   10                   15
Ser Ile Ile Gln Leu Gly Val Thr Pro Pro Gly Tyr Ser Ala Trp Ile
            20                   25                   30
Lys Glu Glu Ala Ala Glu Arg Tyr Leu Tyr Phe Pro Asn Trp Ala Met
        35                   40                   45
Ala Pro Leu Ile Thr Leu Ile Val Val Ala Thr Leu Pro Ile Pro Val
        50                   55                   60
Val Phe Val Leu Arg His Phe His Leu Ile Cys Asp Gly Ser Asn Thr
65                   70                   75                   80
Pro Cys Ile
        83
```

```
        <210> 1904
        <211> 129
        <212> PRT
```

<213> Homo sapiens

<400> 1904
Met Lys Met Phe Val Ala His Gly Phe Tyr Ala Ala Lys Phe Val Val
1   5   10   15
Ala Ile Gly Ser Val Ala Gly Leu Thr Val Ser Leu Leu Gly Ser Leu
                20   25   30
Phe Pro Met Pro Arg Val Ile Tyr Ala Met Ala Gly Asp Gly Leu Leu
            35   40   45
Phe Arg Phe Leu Ala His Val Ser Ser Tyr Thr Glu Thr Pro Val Val
        50   55   60
Ala Cys Ile Val Ser Gly Phe Leu Ala Ala Leu Leu Ala Leu Leu Val
65   70   75   80
Ser Leu Arg Asp Leu Ile Glu Met Met Ser Ile Gly Thr Leu Leu Ala
                85   90   95
Tyr Thr Leu Val Ser Val Cys Val Leu Leu Leu Arg His His Pro Glu
            100   105   110
Ser Asp Ile Asp Gly Phe Val Lys Phe Leu Ser Glu Glu His Thr Cys
        115   120   125
Ser
129

<210> 1905
<211> 93
<212> PRT
<213> Homo sapiens

<400> 1905
Met Gly Leu Leu Met Met Ile Leu Gly Gln Ile Phe Leu Asn Gly Asn
1   5   10   15
Gln Ala Lys Glu Ala Glu Ile Trp Glu Met Leu Trp Arg Met Gly Val
                20   25   30
Gln Arg Glu Arg Arg Leu Ser Ile Phe Gly Asn Pro Lys Arg Leu Leu
        35   40   45
Ser Val Glu Phe Val Trp Gln Arg Tyr Leu Asp Tyr Arg Pro Val Thr
        50   55   60
Asp Cys Lys Pro Val Glu Tyr Glu Phe Phe Trp Gly Pro Arg Ser His
65   70   75   80
Leu Glu Thr Thr Lys Met Lys Ile Leu Lys Phe Met Ala
                85   90   93

<210> 1906
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1906
Met Thr Ile Gly Phe Leu Phe Pro Met Leu Ser Ile Ala Tyr Leu Ile
1   5   10   15
Ser Pro Arg Ser Asn Leu Gly Leu Phe Ile Lys Lys Pro Phe Ile Lys
                20   25   30
Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu Ser Met Leu Leu

```
            35                  40                  45
Leu Ala Ser Gln His Ile Val Arg Thr Asp Leu His Val Gln Gly Pro
        50                  55                  60
Cys Ile
65  66
```

```
    <210> 1907
    <211> 105
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1907
Met Leu Gln Leu Gly Pro Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe
1               5                   10                  15
Glu Gly Thr Val Phe Phe Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala
            20                  25                  30
Ser Leu Glu Glu Asn Gly Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr
        35                  40                  45
Ile Val Phe Thr Val Leu Val Phe Thr Val Thr Leu Lys Leu Ala Leu
        50                  55                  60
Asp Thr Arg Phe Trp Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser
65                  70                  75                  80
Leu Ala Phe Tyr Val Phe Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp
                85                  90                  95
Pro Phe Leu Lys Gln Gln Arg Met Ala
            100                 105
```

```
    <210> 1908
    <211> 46
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1908
Met Gly Phe Leu Val Leu Lys Gln Pro Met Leu Val Ala Lys Val Phe
1               5                   10                  15
Pro Thr Leu Ala Gly Val Glu Ile Ile Leu Phe Thr Leu Lys Gly Phe
            20                  25                  30
Pro Ile Leu Gly Ile Pro Val Gln Leu Pro Pro Thr Val *
        35                  40                  45
```

```
    <210> 1909
    <211> 139
    <212> PRT
    <213> Homo sapiens
```

```
    <400> 1909
Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val Ile Leu Ala
1               5                   10                  15
Glu Asn Gly Phe Leu Pro Ile His Leu Leu Gly Leu Arg Glu Asp Trp
            20                  25                  30
```

```
Asp Asp Arg Trp Ile Asn Asp Val Glu Asp Ser Tyr Gly Gln Gln Trp
        35                  40                  45
Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe Thr Cys His Thr Ala Phe
        50                  55                  60
Phe Val Ser Ile Val Gly Val Gln Trp Ala Asp Leu Val Ile Cys Lys
65                  70                  75                  80
Thr Arg Arg Asn Ser Val Phe Gln Pro Gly Met Lys Asn Lys Ile Leu
                85                  90                  95
Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu Ala Ala Phe Leu Ser Tyr
                100                 105                 110
Cys Pro Gly Met Gly Val Ala Leu Lys Met Tyr Pro Leu Lys Pro Thr
                115                 120                 125
Trp Arg Val Cys Ala Phe Pro Tyr Ser Leu Leu
        130                 135                 139
```

```
        <210> 1910
        <211> 104
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1910
Met Glu Gly Trp Phe Ala Val Leu Ser Thr Ala Asn Asp Val Leu Gly
1               5                   10                  15
Ala Pro Trp Asn Trp Leu Tyr Phe Ile Pro Leu Leu Ile Ile Gly Ala
                20                  25                  30
Phe Phe Val Pro Thr Leu Val Leu Gly Val Leu Ser Gly Asp Phe Ala
        35                  40                  45
Lys Glu Arg Glu Arg Val Glu Thr Arg Arg Ala Phe Met Lys Leu Arg
        50                  55                  60
Arg Gln Gln Gln Ile Glu Arg Glu Leu Asn Gly Tyr Arg Val Trp Ile
65                  70                  75                  80
Ala Lys Ala Glu Glu Val Met Leu Ala Glu Glu Asn Leu Tyr Pro Ser
                85                  90                  95
His Ala Arg Pro Val Asn Pro  *
                100         103
```

```
        <210> 1911
        <211> 116
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1911
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
1               5                   10                  15
Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
                20                  25                  30
Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
                35                  40                  45
Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
        50                  55                  60
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
65                  70                  75                  80
Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr
```

```
                          85                    90                    95
Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp
                100                   105                   110
Ser Thr Val  *
            115
```

```
        <210> 1912
        <211> 105
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1912
Met Gln Leu Lys Thr Pro Ser Gly Gln Val Leu Ser Phe Cys Ile Leu
1                   5                    10                    15
Gln Leu Phe Pro Phe Thr Ser Glu Ser Lys Arg Met Gly Val Ile Val
                20                    25                    30
Arg Asp Glu Ser Thr Ala Glu Ile Thr Phe Tyr Met Lys Gly Ala Asp
            35                    40                    45
Val Ala Met Ser Pro Ile Val Gln Tyr Asn Asp Trp Leu Glu Glu Glu
        50                    55                    60
Cys Gly Asn Met Ala Arg Glu Gly Leu Arg Thr Leu Val Val Ala Lys
65                    70                    75                    80
Lys Ala Leu Thr Glu Glu Gln Tyr Gln Asp Phe Glu Ser Arg Tyr Thr
                85                    90                    95
Gln Ala Lys Leu Ser Met His Thr Lys
                100                   105
```

```
        <210> 1913
        <211> 141
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1913
Met Leu Val Tyr Val Trp Ser Arg Arg Ser Pro Arg Val Arg Val Asn
1                   5                    10                    15
Phe Phe Gly Leu Leu Thr Phe Gln Ala Pro Phe Leu Pro Trp Ala Leu
                20                    25                    30
Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Leu Val Asp Leu Leu
            35                    40                    45
Gly Ile Ala Val Gly His Ile Tyr Tyr Phe Leu Glu Asp Val Phe Pro
        50                    55                    60
Asn Gln Pro Gly Arg Gln Glu Ala Pro Ala Asp Pro Trp Ala Phe Leu
65                    70                    75                    80
Lys Leu Leu Leu Gly Cys Pro Cys Arg Arg Pro Gln Leu Thr Cys Pro
                85                    90                    95
Ser Leu Arg Asn Ser Gln Asp Pro Ile Cys His Pro Arg Ser Ser Asp
                100                   105                   110
Pro His Pro Gly Ala Arg Pro Lys Arg Leu Leu Ala Ala Ser Ile Leu
            115                   120                   125
Pro Met Thr Pro Thr Trp Gly Arg Lys Asn Pro Ser  *
        130                   135                   140
```

```
<210> 1914
<211> 556
<212> PRT
<213> Homo sapiens


<400> 1914
Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys Thr Leu
 1               5                   10                  15
Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg Ser Ile
            20                  25                  30
Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile Arg Asn
        35                  40                  45
Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
    50                  55                  60
Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
65                  70                  75                  80
Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
                85                  90                  95
Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu
            100                 105                 110
Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His
        115                 120                 125
Pro Gln Thr Asp Arg Leu Thr Cys Pro Lys Gly Leu Pro Trp Ala Pro
    130                 135                 140
Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser
145                 150                 155                 160
Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly
                165                 170                 175
Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys
            180                 185                 190
Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu
        195                 200                 205
Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala
    210                 215                 220
Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile
225                 230                 235                 240
Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys
                245                 250                 255
Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro
                260                 265                 270
Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His
        275                 280                 285
Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Leu
    290                 295                 300
Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln
305                 310                 315                 320
His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn
                325                 330                 335
Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu
            340                 345                 350
Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu
        355                 360                 365
Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe
    370                 375                 380
Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys
385                 390                 395                 400
His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu
```

1044

```
                    405                   410                   415
Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu
                420                   425                   430
Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys
            435                   440                   445
Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg
        450                   455                   460
Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro Trp
465                   470                   475                   480
Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg Phe
                485                   490                   495
Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu Pro
            500                   505                   510
Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu Pro
        515                   520                   525
Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val Phe
        530                   535                   540
Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln  *
545                   550                   555
```

```
        <210> 1915
        <211> 212
        <212> PRT
        <213> Homo sapiens


        <400> 1915
Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys
1                   5                   10                  15
Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr
                20                  25                  30
Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val
        35                  40                  45
Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe
        50                  55                  60
Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Val Ile Gly
65                  70                  75                  80
Ser Tyr Ser Val Val Leu Ala Ile Asp Ser Tyr Trp Ser Thr Ser Leu
                85                  90                  95
Ser Tyr Ile Thr Leu Asn Val Leu Lys Arg Ala Leu Asn Lys Asp Phe
                100                 105                 110
His Arg Ala Phe Thr Asn Val Pro Phe Gln Thr Asn Asp Phe Ile Ile
        115                 120                 125
Leu Ala Val Trp Gly Met Leu Ala Val Ser Gly Ile Thr Leu Gln Ile
        130                 135                 140
Arg Arg Glu Arg Gly Arg Pro Phe Phe Pro Pro His Pro Tyr Lys Leu
145                 150                 155                 160
Trp Lys Gln Glu Arg Glu Arg Arg Val Thr Asn Ile Leu Asp Pro Ser
                165                 170                 175
Tyr His Ile Pro Pro Leu Arg Glu Arg Leu Tyr Gly Arg Leu Thr Gln
        180                 185                 190
Ile Lys Gly Leu Phe Gln Lys Glu Gln Pro Ala Gly Glu Arg Thr Pro
        195                 200                 205
Leu Leu Leu  *
210 211
```

```
<210> 1916
<211> 172
<212> PRT
<213> Homo sapiens


<400> 1916
Met Cys Thr Pro Val Arg Val Ser Ile Val Cys Val Met Gly Ala Val
1               5               10              15
Gly Ala Val Trp Thr Ala Pro Leu Pro Leu Pro Trp Ala Pro Thr Pro
            20              25              30
Ser Ile His Leu Arg Glu Glu Gly Ala Ala Phe Pro Phe Cys Gly Val
        35              40              45
Cys Val Leu Arg Pro Arg Arg Ser Lys Trp Arg Ser Trp Asp Val Asn
    50              55              60
Leu Gly Pro Arg Arg Arg Gly Leu Leu Gly Cys Gly Pro Cys Pro Ser
65              70              75              80
Gly Lys Pro Arg Val His Leu Gln Arg Thr Arg Ser Gly Ala Gly Ala
            85              90              95
Glu Ala Gly Gly Leu Pro Thr Arg Gly Ser Met Arg Gly Cys Pro Phe
            100             105             110
Leu Gly Ser Ser Ala Ala Lys Cys Ser Leu Leu Leu Arg Pro Pro Ser
        115             120             125
Arg Gly Glu Ala Ser Pro Trp Leu Pro Glu Phe Met Thr His Pro Val
    130             135             140
His His Gln Gln Leu Ala Cys Gly Ser Gly Trp Leu Gly Thr Lys His
145             150             155             160
Pro Gly Gly Thr Cys Ala Leu Gly Ser Thr Met   *
                165             170 171


<210> 1917
<211> 72
<212> PRT
<213> Homo sapiens


<400> 1917
Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
1               5               10              15
His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
            20              25              30
Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
        35              40              45
Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
    50              55              60
Leu Ser Ile Val Ser Ile Ser   *
65              70  71


<210> 1918
<211> 88
<212> PRT
<213> Homo sapiens
```

<400> 1918
Met Thr Ser Leu Met Phe Leu Trp Arg Ala Leu Leu Glu Thr Ile Ser
1   5   10   15
Thr Asn Met Thr Phe Ser Leu Pro Leu Ala Ala Val Val Arg Ala Trp
        20   25   30
Met Lys Pro Thr Gly Ser Gly Met Phe Leu Tyr Gln Tyr Leu Pro Val
        35   40   45
Val Lys Ser Ser Gln Ala Val Phe Pro Val Val Ile Glu Ile Ser Ser
    50   55   60
Ile Ser Gly Ser Ile Leu Pro Lys Phe Pro Met Leu Ser Leu Met Ser
65   70   75   80
Leu His Thr Gly Ser Ile Ile *
                85   87

<210> 1919
<211> 54
<212> PRT
<213> Homo sapiens

<400> 1919
Met Leu Gly Pro Phe Ser Ser Leu Phe Leu Leu Leu Trp Ser Phe Thr
1   5   10   15
Arg Phe Cys Ile His Phe Tyr Leu Ala Pro Ser His His Cys Leu Thr
        20   25   30
Ala Ala Leu Leu Pro Phe Ser Leu His Pro Leu Tyr Ser Ser Leu Ser
        35   40   45
Leu Ser Arg Ser Gln *
    50   53

<210> 1920
<211> 114
<212> PRT
<213> Homo sapiens

<400> 1920
Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg
1   5   10   15
Leu Leu Lys Ala Gln Ile Leu Ser Tyr Pro Val Pro Arg Phe Glu Thr
        20   25   30
His Ser Leu Ile Ser Arg Cys Ser Gln Val Pro Pro Thr Phe Leu Trp
        35   40   45
Asp Ile Lys Lys Gly Val Arg Gly Gln Arg Glu Pro Ser Gly Pro Leu
    50   55   60
Leu Pro Tyr Thr Leu His Cys Pro Phe Ser Pro His Gln Asn Ala Gln
65   70   75   80
Arg Arg Cys Asp Asp Ala Thr Glu Asp Tyr Ala Thr Trp Ser Asn Arg
                85   90   95
Ser Gly Gln His Asp Gln Leu Ser Arg Gly Cys Leu Leu Pro Phe Leu
            100   105   110
Leu *
113

```
<210> 1921
<211> 139
<212> PRT
<213> Homo sapiens


<400> 1921
Met Val Tyr Leu Tyr Ile Tyr Leu Asp Leu Phe Gln Phe Leu Ile Thr
1               5                   10                  15
Val Leu Gln Gly Phe Leu Phe Val Phe Glu Met Glu Phe His Ser Cys
            20                  25                  30
Arg Pro Gly Gln Ser Ala Met Met Gln Ser Gln Leu Ala Ala Thr Ser
        35                  40                  45
Ala Ser Arg Val Gln Val Ile Leu Val Val Ser Ala Pro Gln Glu Ala
    50                  55                  60
Gly Thr Thr Gly Ala Arg His His Val Gln Leu Ile Phe Val Phe Leu
65                  70                  75                  80
Leu Glu Met Gly Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu
                85                  90                  95
Asn Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Arg
            100                 105                 110
Gly Val Asn His Cys Ala Pro Pro Ile Asn Ser Leu Leu Thr Phe Gln
        115                 120                 125
Ser Phe Ile His Leu Glu Cys Ile Val Ile  *
    130                 135             138



<210> 1922
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1922
Met Trp Leu Ser Phe Pro Lys Leu Phe Ile Pro Leu Ser Ile Phe Leu
1               5                   10                  15
Val Phe Leu Leu Met Ala Asn Ser Phe Arg Ile Phe Lys Ser Lys Asn
            20                  25                  30
Ile Phe Ile Ser Leu Leu Phe Trp Asn Asp Thr Phe Ala Gly Cys Ile
        35                  40                  45
Phe Leu Thr  *
    50  51



<210> 1923
<211> 71
<212> PRT
<213> Homo sapiens


<400> 1923
Met Val Ser His Cys Ile Phe Cys Asn Leu Leu Phe Ser Leu Leu Thr
1               5                   10                  15
Val Phe Leu Arg Leu Leu His Val Asp Thr Cys His Leu Phe Ile Arg
            20                  25                  30
Phe Asn Cys Cys Lys Ile Phe Phe Cys Gln Asp Ile Leu Gln Leu Ile
```

```
            35                      40                      45
Tyr Leu Leu Phe Phe Leu Trp Thr Phe Lys Leu Phe Ser Gly Phe Thr
        50                      55                      60
Leu Lys Ile Ile Gln Gln  *
65                      70
```

```
        <210> 1924
        <211> 187
        <212> PRT
        <213> Homo sapiens


        <400> 1924
Met Leu Phe Ile Gln Tyr Leu Leu Pro Cys Leu Leu Leu Ser Ala Glu
 1               5                      10                      15
Leu Ser Gly Thr Phe Phe Leu Tyr Asn Thr Cys His Leu His Val Pro
                20                      25                      30
Cys Cys His Ser Leu Val Pro Thr Gly Pro Pro Ser Leu Ser Ser His
            35                      40                      45
Phe Gln Ser Arg Gly Leu Cys Ala Pro Cys Ala Ser Ile Ala Asp Ser
        50                      55                      60
Gly Ile Ala Asp Ser Gly Gly Asn Asn Leu Asn Phe Val Gly Ala Gly
65                      70                      75                      80
Gly Val Ala Ser Gly His Leu Leu Ser Pro Leu Leu Gly Pro Gln Ser
                85                      90                      95
Ser Pro Cys Pro His Cys Pro Arg Gly Gly Arg Leu Pro Ser Gln Pro
                100                     105                     110
Leu Pro Leu Cys Ser Ala Arg Ser Trp Ala Gln Glu Ala Leu Arg Leu
            115                     120                     125
Pro Ser Ser Ala Gln Leu Cys Pro Cys His Pro Leu Pro Arg Gly Leu
        130                     135                     140
Gly Pro Val Ser Pro Ser Gly Leu Leu Ala Asn Ile Ser Tyr Arg His
145                     150                     155                     160
Asn Trp Leu Leu Gly Ser Trp Pro Gly Trp Leu Ile Trp Gly Gly Lys
                165                     170                     175
Asn Arg Gly Gly Leu Asn Ser Phe Leu Ala  *
                180                     185 186


        <210> 1925
        <211> 50
        <212> PRT
        <213> Homo sapiens


        <400> 1925
Met Leu Ser Phe Leu Val Val Phe Gln Leu Val Leu Leu Arg Phe Ser
 1               5                      10                      15
Gly Arg His Ser His His Gln Leu Ile Thr Ile Thr Phe Pro Leu Phe
                20                      25                      30
Gln Trp Leu Tyr Phe Phe Phe Met Phe Phe Cys Thr Gly Trp Lys
            35                      40                      45
Phe  *
49
```

```
<210> 1926
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1926
Met Gly Arg Tyr Arg Cys Ala Ser Leu Leu Phe Cys Phe Leu Leu Leu
1               5                   10                  15
Phe Phe Phe Phe Trp Leu Trp Val Arg Asp Ile Phe Lys Leu Ala Gln
            20                  25                  30
Lys Gly Arg Gly Trp Ser Leu Asp Pro His Val Ser Ile Thr  *
        35                  40                  45  46



<210> 1927
<211> 149
<212> PRT
<213> Homo sapiens


<400> 1927
Met Ala Thr Gly Leu Leu Ala Phe Leu Gly Leu Ala Ala Gly Gly Gln
1               5                   10                  15
Thr Leu Cys Pro Ala Gly Glu Leu Pro Gly His Ala Arg Ala Gln Ala
            20                  25                  30
Ser Gly Ala Pro Gly Ser Val Leu Ile Ala Val Pro Gly Arg Arg Arg
        35                  40                  45
Val His Thr Cys Gly Pro Gly Pro Ala Ala Pro Ser Thr Arg Gly Glu
    50                  55                  60
Cys Pro Pro Pro Ala Leu Gly His Thr Arg Pro Ala Arg Pro Arg Pro
65                  70                  75                  80
Val Leu Leu Arg Pro Ser Cys Ser Pro Gly Ala Arg Gly Ala Gly Thr
                85                  90                  95
Trp Cys Cys Ala Pro Ala Thr Gly His Ser Ala Pro Arg Gly Cys Pro
            100                 105                 110
Pro Ala Arg Ala Ala Pro Thr Gly Ser Ala Thr Pro Ala Pro Pro Pro
        115                 120                 125
Ala Ala Cys Ala Ala Phe His Ser Ala Trp Ser Val Pro Pro Ala Gly
    130                 135                 140
Arg Gln Gln Gly  *
145         148



<210> 1928
<211> 446
<212> PRT
<213> Homo sapiens


<400> 1928
Met Ser Leu Trp Asn Gln Leu Val Val Pro Val Leu Phe Met Val Phe
1               5                   10                  15
Trp Leu Val Leu Phe Ala Leu Gln Ile Tyr Ser Tyr Phe Ser Thr Arg
            20                  25                  30
Asp Gln Pro Ala Ser Arg Glu Arg Leu Leu Phe Leu Phe Leu Thr Ser
```

1050

```
                35                          40                          45
Ile Ala Glu Cys Cys Ser Thr Pro Tyr Ser Leu Leu Gly Leu Val Phe
        50                          55                  60
Thr Val Ser Phe Val Ala Leu Gly Val Leu Thr Leu Cys Lys Phe Tyr
    65                      70                  75                  80
Leu Gln Gly Tyr Arg Ala Phe Met Asn Asp Pro Ala Met Asn Arg Gly
                85                  90                  95
Met Thr Glu Gly Val Thr Leu Leu Ile Leu Ala Val Gln Thr Gly Leu
            100                 105                 110
Ile Glu Leu Gln Val Val His Arg Ala Phe Leu Leu Ser Ile Ile Leu
        115                 120                 125
Phe Ile Val Val Ala Ser Ile Leu Gln Ser Met Leu Glu Ile Ala Asp
    130                 135                 140
Pro Ile Val Leu Ala Leu Gly Ala Ser Arg Asp Lys Ser Leu Trp Lys
145                 150                 155                 160
His Phe Arg Ala Val Ser Leu Cys Leu Phe Leu Leu Val Phe Pro Ala
                165                 170                 175
Tyr Met Ala Tyr Met Ile Cys Gln Phe Phe His Met Asp Phe Trp Leu
            180                 185                 190
Leu Ile Ile Ile Ser Ser Ser Ile Leu Thr Ser Leu Gln Val Leu Gly
        195                 200                 205
Thr Leu Phe Ile Tyr Val Leu Phe Met Val Glu Glu Phe Arg Lys Glu
    210                 215                 220
Pro Val Glu Asn Met Asp Asp Val Ile Tyr Tyr Val Asn Gly Thr Tyr
225                 230                 235                 240
Arg Leu Leu Glu Phe Leu Val Ala Leu Cys Val Val Ala Tyr Gly Val
                245                 250                 255
Ser Glu Thr Ile Phe Gly Glu Trp Thr Val Met Gly Ser Met Ile Ile
            260                 265                 270
Phe Ile His Ser Tyr Tyr Asn Val Trp Leu Arg Ala Gln Leu Gly Trp
        275                 280                 285
Lys Ser Phe Leu Leu Arg Arg Asp Ala Val Asn Lys Ile Lys Ser Leu
    290                 295                 300
Pro Ile Ala Thr Lys Glu Gln Leu Glu Lys His Asn Asp Ile Cys Ala
305                 310                 315                 320
Ile Cys Tyr Gln Asp Met Lys Ser Ala Val Ile Thr Pro Cys Ser His
            325                 330                 335
Phe Phe His Ala Gly Cys Leu Lys Lys Trp Leu Tyr Val Gln Glu Thr
        340                 345                 350
Cys Pro Leu Cys His Cys His Leu Lys Asn Ser Ser Gln Leu Pro Gly
        355                 360                 365
Leu Gly Thr Glu Pro Val Leu Gln Pro His Ala Gly Ala Glu Gln Asn
    370                 375                 380
Val Met Phe Gln Glu Gly Thr Glu Pro Pro Gly Gln Glu His Thr Pro
385                 390                 395                 400
Gly Thr Arg Ile Gln Glu Gly Ser Arg Asp Asn Asn Glu Tyr Ile Ala
            405                 410                 415
Arg Arg Pro Asp Asn Gln Glu Gly Ala Phe Asp Pro Lys Glu Tyr Pro
            420                 425                 430
His Ser Ala Lys Asp Glu Ala His Pro Val Glu Ser Ala *
        435                 440                 445
```

```
<210> 1929
<211> 120
<212> PRT
<213> Homo sapiens
```

<400> 1929
Met Val Leu Pro Leu Pro Trp Leu Ser Arg Tyr His Phe Leu Arg Leu
1   5   10   15
Leu Leu Pro Ser Trp Ser Leu Ala Pro Gln Gly Ser His Gly Cys Cys
            20   25   30
Ser Gln Asn Pro Lys Ala Ser Met Glu Glu Gln Thr Asn Ser Arg Gly
            35   40   45
Asn Gly Lys Met Thr Ser Pro Pro Arg Gly Pro Gly Thr His Arg Thr
    50   55   60
Ala Glu Leu Ala Arg Ala Glu Glu Leu Leu Glu Gln Gln Leu Glu Leu
65   70   75   80
Tyr Gln Ala Leu Leu Glu Gly Gln Glu Gly Ala Trp Glu Ala Gln Ala
            85   90   95
Leu Val Leu Lys Ile His Lys Leu Lys Glu Gln Met Arg Arg His Gln
            100   105   110
Glu Ser Leu Gly Gly Gly Ala *
        115   119

        <210> 1930
        <211> 122
        <212> PRT
        <213> Homo sapiens

        <400> 1930
Met Thr Trp Leu Val Leu Leu Gly Thr Leu Leu Cys Met Leu Arg Val
1   5   10   15
Gly Leu Gly Thr Pro Asp Ser Glu Gly Phe Pro Pro Arg Ala Leu His
            20   25   30
Asn Cys Pro Tyr Lys Cys Ile Cys Ala Ala Asp Leu Leu Ser Cys Thr
    35   40   45
Gly Leu Gly Leu Gln Asp Val Pro Ala Glu Leu Pro Ala Gly Thr Ala
    50   55   60
Asp Leu Asp Leu Ser His Asn Ala Leu Gln Arg Met Arg Pro Gly Trp
65   70   75   80
Leu Ala Pro Leu Phe Gln Leu Arg Ala Leu His Leu Asp His Asn Glu
            85   90   95
Leu His Ala Leu Asp Arg Gly Val Phe Val Asn Ala Ser Gly Leu Arg
            100   105   110
Leu Leu Asp Leu Ser Ser Asn Ala Glu Phe
        115   120   122

        <210> 1931
        <211> 73
        <212> PRT
        <213> Homo sapiens

        <400> 1931
Met Ala Arg Ala Pro Ser Val Ala Leu Ala Gln Leu Trp Leu Ile Cys
1   5   10   15
Leu Cys Pro Glu Ser Leu Ala Ser Phe Val Gln Ala Val Pro Trp Lys
            20   25   30
Val Leu Gln Pro Ser Ser Asn Arg Ser Thr Asp Cys Ser Pro His Met

                                1052

```
            35                40           ·         45
Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg Lys Ala Gln Asp Leu Gly
       50                55                    60
Ala Gly Tyr Tyr Val Ser Val His  *
65                70      72
```

```
       <210> 1932
       <211> 68
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1932
Met Lys Thr Val Phe Thr Lys Lys Leu Thr Ala Ala Leu Leu Ile Thr
1               5                10                    15
Val Pro Asn Cys Lys Gln Pro Arg Cys Pro Ser Met Gly Glu Trp Leu
           20                25                30
Asn Lys Leu Gln Tyr Ile His Thr Met Lys Tyr Tyr Ser Thr Ile Lys
       35                40                    45
Val Asn Tyr Trp Pro Gly Thr Val Ala His Thr Cys Asn Pro Ser Thr
       50                55                    60
Leu Gly Gly  *
65      67
```

```
       <210> 1933
       <211> 47
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1933
Met Gln Gln Arg Lys Met Arg Leu Val Trp Arg Ser Tyr Trp Ser Met
1               5                10                    15
Val Gln Thr Pro Met Leu Trp Met Ala Thr Glu Ile Pro His Phe Thr
           20                25                30
Gly Gln Pro Leu Arg Thr Met Leu Ser Val Cys Gly Leu Ser  *
           35                40                    45  46
```

```
       <210> 1934
       <211> 86
       <212> PRT
       <213> Homo sapiens
```

```
       <400> 1934
Met Cys Trp Ser Pro Leu Thr Gly Trp Ala Leu Ser Ser Ser Arg Cys
1               5                10                    15
Arg Leu Ser Trp Pro Leu Thr Ser Phe Gly Ser Thr Ala Ser Cys Arg
           20                25                30
Pro Thr Thr Gly Trp Arg Gly Leu Met Trp Leu Gln Ala Leu Ser Ser
           35                40                    45
Ser Gly Tyr Pro Ser Leu Cys Thr Leu Tyr Ser Glu Leu Leu Val Gln
       50                55                    60
```

```
Ala Val His Arg Lys Ala Gly Asp Thr Glu Val Gln Gln Ser Leu Leu
65              70              75                      80
Leu Leu Leu Lys Lys  *
                85
```

```
<210> 1935
<211> 76
<212> PRT
<213> Homo sapiens
```

```
<400> 1935
Met Gly Glu Val Pro Lys Ala His Arg Leu Lys Leu Arg Trp Leu Phe
1               5               10                      15
Pro Val Ser Leu Cys Arg Ala Pro Leu Leu Ser Thr Ala His Leu Ala
            20                  25                  30
Leu Leu Leu Pro Cys Cys Leu Leu Cys Ser Ser Cys Tyr Tyr Phe Pro
            35                  40                  45
Phe Leu Ser Leu Leu Pro Pro Trp Pro Asn Leu Phe His Arg Asn Ile
        50                  55                  60
Thr Gly Pro Ala Arg His Ser Gly Ser Pro Leu  *
65                  70                  75
```

```
<210> 1936
<211> 49
<212> PRT
<213> Homo sapiens
```

```
<400> 1936
Met Leu Leu Gln Thr Phe Val Thr Thr Cys Ile Ser Tyr Phe Tyr Trp
1               5               10                      15
His Phe Asn Phe Val Trp Ile Gln Phe Asn Val Cys Arg Val Leu Ser
            20                  25                  30
Phe Gln Pro Glu Arg Leu Thr Leu Ala Phe Leu Ile Gly Gln Val Tyr
            35                  40                  45              48
    *
```

```
<210> 1937
<211> 76
<212> PRT
<213> Homo sapiens
```

```
<400> 1937
Met Lys Gly Arg Phe Leu Phe Pro Leu Arg Leu Leu Leu Trp Met Cys
1               5               10                      15
Leu His Leu Gln Arg Gln Ala Ser Glu Leu His Gln Pro Ser Met Pro
            20                  25                  30
Gly Cys Pro Leu Thr Ser Ser Ser Arg Leu Phe Asp Asn Ala Gln Met
            35                  40                  45
His Gln Phe Leu Asn Ile His Val Lys Phe Glu Asn Cys Thr Phe Gly
```

1054

```
        50                    55                    60
Glu Ile Lys Phe Tyr Ile Gln Leu Ala Lys Lys Lys
65                    70                    75  76
```

```
        <210> 1938
        <211> 191
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1938
Met Ala Asp Glu Lys Thr Phe Arg Ile Gly Phe Ile Val Leu Gly Leu
  1               5                  10                  15
Phe Leu Leu Ala Leu Gly Thr Phe Leu Met Ser His Asp Arg Pro Gln
                 20                  25                  30
Val Tyr Gly Thr Phe Tyr Ala Met Gly Ser Val Met Val Ile Gly Gly
            35                  40                  45
Ile Ile Trp Ser Met Cys Gln Cys Tyr Pro Lys Ile Thr Phe Val Pro
  50                  55                  60
Ala Asp Ser Asp Phe Gln Gly Ile Leu Ser Pro Lys Ala Met Gly Leu
65                  70                  75                  80
Leu Glu Asn Gly Leu Ala Ala Glu Met Lys Ser Pro Ser Pro Gln Pro
                 85                  90                  95
Pro Tyr Val Arg Leu Trp Glu Glu Ala Ala Tyr Asp Gln Ser Leu Pro
            100                 105                 110
Asp Phe Ser His Ile Gln Met Lys Val Met Ser Tyr Ser Glu Asp His
            115                 120                 125
Arg Ser Leu Leu Ala Pro Glu Met Gly Gln Pro Lys Leu Gly Thr Ser
            130                 135                 140
Asp Gly Gly Glu Gly Gly Pro Gly Asp Val Gln Ala Trp Met Glu Ala
145                 150                 155                 160
Ala Val Val Ile His Lys Gly Leu Asn Glu Ser Glu Gly Glu Arg Arg
                 165                 170                 175
Leu Thr Gln Ser Trp Pro Gly Pro Leu Ala Cys Pro Gln Gly Pro
            180                 185                 190 191
```

```
        <210> 1939
        <211> 82
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1939
Met Val Arg Ser Ile Arg Leu Leu Phe Phe Phe Gly Trp Gly Phe Ser
  1               5                  10                  15
Thr Thr Gln Gln Pro Ser Leu Cys Gln Asn Ser Leu Met Phe Pro Asp
                 20                  25                  30
Gly Ser Ser Phe Thr Pro Leu Ser Glu Ala Pro Lys Gly Ser Phe Pro
            35                  40                  45
Gly Val Trp Thr Thr His Ser Ser Leu Ser Pro Asp Thr Pro Pro Pro
            50                  55                  60
Trp Val His Ser Ala Gly Trp Val Gln Thr Lys Trp Asn Pro Trp Asn
65                  70                  75                  80
Leu  *
81
```

```
        <210> 1940
        <211> 101
        <212> PRT
        <213> Homo sapiens


        <400> 1940
Met His Val Cys Leu His Ile Trp Gly Leu Gly Val Cys Val Phe Met
 1               5                  10                  15
His Met Met Cys Ala Cys Val Gly Val Tyr Val Cys Pro Phe Met Arg
            20                  25                  30
Tyr Gly Met Gln Ile Cys Ala Cys Ile His Ala His Ser Cys Ser Ala
        35                  40                  45
Cys Val Cys Ser Cys Ile Trp Cys Met His Gly Cys Ser Tyr Leu Trp
    50                  55                  60
Gly Thr Gly Ile Met His Val Cys Ser Ser Val Trp Gly Val Gly Ile
65                  70                  75                  80
Pro Gly Leu Trp Pro Glu Ala Pro Leu Gln Asp Thr Ala Pro Cys Arg
            85                  90                  95
Leu Pro Arg Gly  *
            100
```

```
        <210> 1941
        <211> 88
        <212> PRT
        <213> Homo sapiens


        <400> 1941
Met Lys Ala Ser Val Leu Ser Pro Ser Phe Leu Leu Val Leu Trp Ser
 1               5                  10                  15
Cys Phe Leu Ser Cys Ser Cys Met Glu Pro Gln Ser Gly Phe Pro Arg
            20                  25                  30
Pro Ser Cys Phe Thr Val Gly Phe Leu Leu Arg Arg Arg Thr Lys Thr
        35                  40                  45
Arg Arg Gln Lys Ala Thr Asn Thr Val Lys Met Arg Thr Thr Lys Ile
    50                  55                  60
Leu Lys Ile Lys Ile Asp Lys Arg Arg Trp Pro Thr Arg Met Ser Ser
65                  70                  75                  80
Lys Trp Asn Pro Lys Glu Trp  *
            85          87
```

```
        <210> 1942
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 1942
Met Arg Ser Met Gly Phe Arg Ala Gln Gly Leu Pro Phe Gly Ile Arg
 1               5                  10                  15
Gln Thr Trp Leu Arg Ile Leu Asp Leu Leu Leu Thr Cys Thr Leu Pro
```

```
                        20                      25                      30
Phe Gly Ser Arg Asp Val Lys Trp Arg Cys Cys His Leu  *
                35           .           40                      45
```

```
        <210> 1943
        <211> 155
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1943
Met Phe Thr Leu Leu Val Leu Leu Ser Gln Leu Pro Thr Val Thr Leu
 1               5                      10                      15
Gly Phe Pro His Cys Ala Arg Gly Pro Lys Ala Ser Lys His Ala Gly
                20                      25                      30
Glu Glu Val Phe Thr Ser Lys Glu Glu Ala Asn Phe Phe Ile His Arg
               ·35                      40                      45
Arg Leu Leu Tyr Asn Arg Phe Asp Leu Glu Leu Phe Thr Pro Gly Asn
        50                      55                      60
Leu Glu Arg Glu Cys Asn Glu Glu Leu Cys Asn Tyr Glu Glu Ala Arg
 65                      70                      75                      80
Glu Ile Phe Val Asp Glu Asp Lys Thr Ile Ala Phe Trp Gln Glu Tyr
                85                      90                      95
Ser Ala Lys Gly Pro Thr Thr Lys Ser Asp Gly Asn Arg Glu Lys Ile
               100                     105                     110
Asp Val Met Gly Leu Leu Thr Gly Leu Ile Ala Ala Gly Val Phe Leu
               115                     120                     125
Val Ile Phe Gly Leu Leu Gly Tyr Tyr Leu Cys Ile Thr Lys Cys Asn
        130                     135                     140
Arg Leu Gln His Pro Cys Ser Ser Ala Val Tyr
145                     150                     155
```

```
        <210> 1944   .
        <211> 61
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1944
Met Cys Gln His Val Gln Leu Ile Phe Val Phe Phe Val Glu Thr Gly
 1               5                      10                      15
Phe His His Val Ala Gln Ala Gly Leu Lys Leu Leu Gly Ser Ser Asp
                20                      25                      30
Leu Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Lys Gly Ile Ser His
        35                      40                      45
His Val Gln Leu Lys Phe Leu Ile Ile Asn Asn Phe . *
        50                      55                      60
```

```
        <210> 1945
        <211> 79
        <212> PRT
        <213> Homo sapiens
```

<400> 1945
Met Gln Leu Ile Leu Trp Leu Pro Trp Tyr Val Asp Gln Thr Phe Cys
1   5   10   15
His Ser Val Leu Gln Cys Cys Cys Pro Gly Gln Leu Cys Gln Ser Phe
                20   25   30
His Ser Asn Arg Asn Asp Ala Arg Leu Leu Gly Ala Lys Gln Ser Ile
        35   40   45
Met Arg Arg Lys Arg Trp Leu Glu Pro Ser Val Arg Glu Cys Ala Pro
    50   55   60
Gly Met Ile Leu Tyr Lys Ile Gln Ser Tyr Leu Lys Ile Gln *
65   70   75   78

<210> 1946
<211> 72
<212> PRT
<213> Homo sapiens

<400> 1946
Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
1   5   10   15
His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
                20   25   30
Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
        35   40   45
Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
    50   55   60
Leu Ser Ile Val Ser Ile Ser *
65   70 71

<210> 1947
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1947
Met Trp Asn Val Ala Phe Leu Phe Gln Trp Phe Leu Ser Leu Lys Lys
1   5   10   15
Glu Gly Arg Ser Ser Val Glu Thr Lys Asp Arg Arg Ser Val Arg Asp
                20   25   30
Leu Trp Gly Met Pro Lys Lys Met Val Ser Phe Gly Gly Glu Trp Leu
        35   40   45
Arg Glu Gly Leu Arg Glu Val *
    50   55

<210> 1948
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1948
Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
1   5   10   15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
            20   25   30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly *
        35   40   45   47

<210> 1949
<211> 136
<212> PRT
<213> Homo sapiens

<400> 1949
Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
1   5   10   15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
            20   25   30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
        35   40   45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
        50   55   60
Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
65   70   75   80
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
                85   90   95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
        100   105   110
Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Lys Arg Pro Gln Gly His Gly
        115   120   125
Phe Phe Cys Phe Leu Lys Ala Lys
    130   135 136

<210> 1950
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1950
Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
1   5   10   15
Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
            20   25   30
Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
        35   40   45
Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
        50   55   60
His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
65   70   75   77

<210> 1951

```
<211> 89
<212> PRT
<213> Homo sapiens


<400> 1951
Met Val Cys Gly Ala Leu Met Trp Ile Met Leu Ile Leu Val Gly Leu
1               5                   10                  15
Gly Phe Pro Phe Ile Met Glu Ala Leu Ser His Phe Leu Tyr Val Pro
                20                  25                  30
Phe Leu Gly Val Cys Val Cys Gly Ala Ile Tyr Thr Gly Leu Phe Leu
            35                  40                  45
Pro Glu Thr Lys Gly Lys Thr Phe Gln Glu Ile Ser Lys Glu Leu His
        50                  55                  60
Arg Leu Asn Phe Pro Arg Arg Ala Gln Gly Pro Thr Trp Arg Ser Leu
65                  70                  75                  80
Glu Val Ile Gln Ser Thr Glu Leu  *
                85          88
```

```
<210> 1952
<211> 47
<212> PRT
<213> Homo sapiens


<400> 1952
Met Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu
1               5                   10                  15
Leu Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe
                20                  25                  30
Val Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe  *
            35                  40                  45  46
```

```
<210> 1953
<211> 56
<212> PRT
<213> Homo sapiens


<400> 1953
Met Lys Asn Leu Arg Leu Gly Glu Val Val Thr Leu Ser Trp Val Leu
1               5                   10                  15
Val Val Glu Leu Glu Val Lys Ala Lys Ser Val Phe Leu Leu Ala Ile
                20                  25                  30
Leu Thr Thr Glu Phe Ser Leu Asn Gln Ser Leu Lys Met Phe Leu Gly
            35                  40                  45
Gln Glu Trp Trp Phe Thr Leu  *
        50                  55
```

```
<210> 1954
<211> 425
<212> PRT
<213> Homo sapiens
```

1060

```
<400> 1954
Met Thr Leu Arg Pro Gly Thr Met Arg Leu Ala Cys Met Phe Ser Ser
 1               5                  10                  15
Ile Leu Leu Phe Gly Ala Ala Gly Leu Leu Leu Phe Ile Ser Leu Gln
            20                  25                  30
Asp Pro Thr Glu Leu Ala Pro Gln Gln Val Pro Gly Ile Lys Phe Asn
        35                  40                  45
Ile Arg Pro Arg Gln Pro His His Asp Leu Pro Pro Gly Gly Ser Gln
    50                  55                  60
Asp Gly Asp Leu Lys Glu Pro Thr Glu Arg Val Thr Arg Asp Leu Ser
65                  70                  75                  80
Ser Gly Ala Pro Arg Gly Arg Asn Leu Pro Ala Pro Asp Gln Pro Gln
                85                  90                  95
Pro Pro Leu Gln Arg Gly Thr Arg Leu Arg Leu Arg Gln Arg Arg Arg
            100                 105                 110
Arg Leu Leu Ile Lys Lys Met Pro Ala Ala Ala Thr Ile Pro Ala Asn
        115                 120                 125
Ser Ser Asp Ala Pro Phe Ile Arg Pro Gly Pro Gly Thr Leu Asp Gly
    130                 135                 140
Arg Trp Val Ser Leu His Arg Ser Gln Gln Glu Arg Lys Arg Val Met
145                 150                 155                 160
Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser Arg Arg Ala Val
                165                 170                 175
Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp Arg His Arg Val
            180                 185                 190
Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn Trp Lys Arg Val
        195                 200                 205
Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala Asp Ile Gln His
    210                 215                 220
Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu Asp Thr Phe Asp
225                 230                 235                 240
Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr Lys Met Leu Phe
                245                 250                 255
Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe Arg Asp Lys Phe
            260                 265                 270
Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Gly Lys Ala Ile Leu
        275                 280                 285
Ala Arg Tyr Arg Ala Asn Ala Ser Arg Glu Ala Leu Arg Thr Gly Ser
    290                 295                 300
Gly Val Arg Phe Pro Glu Phe Val Gln Tyr Leu Leu Asp Val His Arg
305                 310                 315                 320
Pro Val Gly Met Asp Ile His Trp Asp His Val Ser Arg Leu Cys Ser
                325                 330                 335
Pro Cys Leu Ile Asp Tyr Asp Phe Val Gly Lys Phe Glu Ser Met Glu
            340                 345                 350
Asp Asp Ala Asn Phe Phe Leu Ser Leu Ile Arg Ala Pro Arg Asn Leu
        355                 360                 365
Thr Phe Pro Arg Phe Lys Asp Arg His Ser Gln Glu Ala Arg Thr Thr
    370                 375                 380
Ala Arg Ile Ala His Gln Tyr Phe Ala Gln Leu Ser Ala Leu Gln Arg
385                 390                 395                 400
Gln Arg Thr Tyr Asp Phe Tyr Tyr Met Asp Tyr Leu Met Phe Asn Tyr
                405                 410                 415
Ser Lys Pro Phe Ala Asp Leu Tyr  *
            420                 424
```

```
<210> 1955
<211> 106
<212> PRT
<213> Homo sapiens


<400> 1955
Met Val Cys Phe Leu Phe Ile Thr Pro Leu Ala Ala Ile Ser Gly Trp
1               5                   10                  15
Leu Cys Leu Arg Gly Ala Gln Asp His Leu Arg Leu His Ser Gln Leu
            20                  25                  30
Glu Ala Val Gly Leu Ile Ala Leu Thr Ile Ala Leu Phe Thr Ile Tyr
            35                  40                  45
Val Leu Trp Thr Leu Val Ser Phe Arg Tyr His Cys Gln Leu Tyr Ser
        50                  55                  60
Glu Trp Arg Lys Thr Asn Gln Lys Val Arg Leu Lys Ile Arg Glu Ala
65                  70                  75                  80
Asp Ser Pro Glu Gly Pro Gln His Ser Pro Leu Ala Ala Gly Leu Leu
                85                  90                  95
Lys Lys Val Ala Glu Glu Thr Pro Val    *
                100                 105
```

```
<210> 1956
<211> 139
<212> PRT
<213> Homo sapiens


<400> 1956
Met Val Leu Pro Phe Ile Cys Asn Leu Leu Arg Arg His Pro Ala Cys
1               5                   10                  15
Arg Val Leu Val His Arg Pro His Gly Pro Glu Leu Asp Ala Asp Pro
            20                  25                  30
Tyr Asp Pro Gly Glu Glu Asp Pro Ala Gln Ser Arg Ala Leu Glu Ser
        35                  40                  45
Ser Leu Trp Glu Leu Gln Ala Leu Gln Arg His Tyr His Pro Glu Val
        50                  55                  60
Ser Lys Ala Ala Ser Val Ile Asn Gln Ala Leu Ser Met Pro Glu Val
65                  70                  75                  80
Ser Ile Ala Pro Leu Leu Glu Leu Thr Ala Tyr Glu Ile Phe Glu Arg
                85                  90                  95
Asp Leu Lys Lys Lys Gly Pro Glu Pro Val Pro Thr Gly Val Leu Ser
            100                 105                 110
Gln Pro Arg Ala Cys Trp Asp Gly Arg Val Lys Leu Cys Ala Gln His
            115                 120                 125
Phe His Ala Gln Leu Thr Leu Ala His Leu    *
130                 135                 138
```

```
<210> 1957
<211> 87
<212> PRT
<213> Homo sapiens
```

```
        <400> 1957
Met Ala Ala Pro Trp Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu
 1               5               10              15
Arg Pro Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg
            20              25              30
Asp Gly Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu
        35              40              45
Gly Leu Val Cys Ala Gly Gln Gly Gly Phe Trp Ala Ser Met Ala Gly
    50              55              60
Ala Gly Ala Leu Arg Thr Pro Gly Pro Leu Gln Gly Met Asn Val Glu
 65              70              75              80
Arg His Glu Leu Leu Phe  *
                85  86
```

```
        <210> 1958
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1958
Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
 1               5               10              15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Glu Tyr Ala Pro Ala Ala
            20              25              30
Leu Pro Cys Ala Ala Cys Ala Thr Ile Leu Leu Ser Ser Val Ala  *
        35              40              45  47
```

```
        <210> 1959
        <211> 65
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1959
Met Trp Ser Leu Ile Gln Thr Leu Gln Ile Leu Pro Gly Ser Leu Ser
 1               5               10              15
Ile Leu Leu Cys Ser Ser Ala Gly Trp Lys Asp Cys Gln Ser Ala Leu
            20              25              30
Trp Leu Asn His Val Phe Arg Arg Ala Trp Trp Leu Leu Pro Val Ile
        35              40              45
Leu Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Pro Glu Val Arg Ser
    50              55              60              64
 *
```

```
        <210> 1960
        <211> 78
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1960
```

```
Met Ser Tyr Val Arg His Val Leu Ser Cys Leu Gly Gly Gly Leu Ala
1               5                   10                  15
Leu Trp Arg Ala Gly Gln Trp Leu Trp Ala Gln Arg Leu Gly His Cys
                20                  25                  30
His Thr Tyr Trp Ala Val Ser Glu Glu Leu Leu Pro Asn Ser Gly His
            35                  40                  45
Gly Pro Asp Gly Glu Val Pro Lys Asp Lys Glu Gly Gly Val Phe Asp
        50                  55                  60
Leu Gly Pro Phe Ile Val Gly Phe Trp Gly Pro Gln Ile  *
65                  70                  75      77
```

```
        <210> 1961
        <211> 77
        <212> PRT
        <213> Homo sapiens


        <400> 1961
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
1               5                   10                  15
His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
                20                  25                  30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
            35                  40                  45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
        50                  55                  60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu  *
65                  70                  75  76
```

```
        <210> 1962
        <211> 65
        <212> PRT
        <213> Homo sapiens


        <400> 1962
Met Phe Ser Ala Val Phe Pro Ala Val Ser Cys Gln Ile Ser Leu Leu
1               5                   10                  15
Ser Thr Cys Asn Ser Leu Gln His Phe Pro Tyr Ala Gly Val Leu Cys
                20                  25                  30
Phe Arg Pro Val Leu Cys Leu Cys Pro Gly Gln Asp Phe Cys Gly Asn
            35                  40                  45
Val Arg Cys Gln Trp Arg Leu Leu Ala Gly Val Asp Val Ser Asp Val
        50                  55                  60
 *
```

```
        <210> 1963
        <211> 53
        <212> PRT
        <213> Homo sapiens

        <221> misc_feature
```

<222> (1)...(53)
<223> Xaa = any amino acid or nothing

<400> 1963
Met Thr Cys Pro Leu His Thr Thr Pro Phe Pro Phe Ser Leu Pro Cys
1   5   10   15
Leu Pro Thr Phe Phe Leu Asp Phe Pro Ser Cys Ser Leu Ser Ser Cys
                20   25   30
Leu Pro Ile Cys Phe Pro Phe Leu Ser Leu Xaa Gln Ile Leu His Ile
            35   40   45
Val Ala Leu Leu Ile
50   53

<210> 1964
<211> 232
<212> PRT
<213> Homo sapiens

<400> 1964
Met Pro Ser Val His Arg Leu Leu Gly Pro Gln Pro Val Pro Ser Arg
1   5   10   15
Arg Leu Arg Leu Ala Leu Ala Leu Leu Leu Ser Leu Gln Val Val Val
                20   25   30
Phe Phe Leu Val Val Leu Gly Gln Gly Arg Leu Leu Gln Pro Cys Arg
            35   40   45
Gly Cys Leu Glu Leu Pro Gly Gly Pro Gly Glu Ala Glu Asp His Gly
    50   55   60
Asp Leu Gly Gln Gly Trp Val Gly Leu Leu Gln Ala Leu Asp Pro Leu
65   70   75   80
Ser His Arg Arg Leu Val Met Ser Thr Arg His Ala His Gly Glu Asp
                85   90   95
Arg Ala Phe Leu His Phe Ile Asp Val Lys Leu Val Val Val Pro Ala
            100   105   110
Thr Pro His Ile Leu Gln Val Gln Leu His Arg Val Val Glu Val Pro
        115   120   125
Leu Leu Arg Arg Leu Phe His Phe Pro Leu Leu Arg Gly Gln Gln Val
    130   135   140
Ser Ser Glu Asp Val Val Ile His Thr Leu Val Ala Glu Pro Gln Gly
145   150   155   160
Glu Gly Ala Leu Asn Lys Asp Arg Pro Gly Trp Ile Val Ala Gly Gln
                165   170   175
Gly Gly Leu Leu Ile Gly Thr Leu Asp Ser Trp Cys Gly Asp Ile His
            180   185   190
Ala Leu Cys Pro Thr Met Trp Gly Trp Gly Gly Ser Ala Ala Pro Val
    195   200   205
Glu Ser Leu Gly Lys Gly Thr Ser Gly Glu Gly Asp Gly Arg Arg Gln
    210   215   220
Gly Gln Arg Thr Gly Pro Gly   *
225   230 231

<210> 1965
<211> 253
<212> PRT

<213> Homo sapiens

<400> 1965
Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
1   5   10   15
Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
            20   25   30
Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
        35   40   45
Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
    50   55   60
Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
65   70   75   80
Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
            85   90   95
Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
        100   105   110
Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu
    115   120   125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
    130   135   140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
145   150   155   160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
            165   170   175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
            180   185   190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
    195   200   205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
    210   215   220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
225   230   235   240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro   *
            245   250   252

<210> 1966
<211> 649
<212> PRT
<213> Homo sapiens

<400> 1966
Met Val Thr Cys Phe Ile Ile Gly Leu Leu Phe Pro Val Phe Ser Val
1   5   10   15
Cys Tyr Leu Ile Ala Pro Lys Ser Pro Leu Gly Leu Phe Ile Arg Lys
            20   25   30
Pro Phe Ile Lys Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu
        35   40   45
Phe Leu Leu Leu Leu Ala Ser Gln His Ile Asp Arg Ser Asp Leu Asn
    50   55   60
Arg Gln Gly Pro Pro Pro Thr Ile Val Glu Trp Met Ile Leu Pro Trp
65   70   75   80
Val Leu Gly Phe Ile Trp Gly Glu Ile Lys Gln Met Trp Asp Gly Gly
            85   90   95
Leu Gln Asp Tyr Ile His Asp Trp Trp Asn Leu Met Asp Phe Val Met

```
                    100                      105                     110
Asn Ser Leu Tyr Leu Ala Thr Ile Ser Leu Lys Ile Val Ala Phe Val
         115                     120                     125
Lys Tyr Ser Ala Leu Asn Pro Arg Glu Ser Trp Asp Met Trp His Pro
     130                     135                     140
Thr Leu Val Ala Glu Ala Leu Phe Ala Ile Ala Asn Ile Phe Ser Ser
145                     150                     155                     160
Leu Arg Leu Ile Ser Leu Phe Thr Ala Asn Ser His Leu Gly Pro Leu
                    165                     170                     175
Gln Ile Ser Leu Gly Arg Met Leu Leu Asp Ile Leu Lys Phe Leu Phe
                    180                     185                     190
Ile Tyr Cys Leu Val Leu Leu Ala Phe Ala Asn Gly Leu Asn Gln Leu
         195                     200                     205
Tyr Phe Tyr Tyr Glu Glu Thr Lys Gly Leu Thr Cys Lys Gly Ile Arg
     210                     215                     220
Cys Glu Lys Gln Asn Asn Ala Phe Ser Thr Leu Phe Glu Thr Leu Gln
225                     230                     235                     240
Ser Leu Phe Trp Ser Ile Phe Gly Leu Ile Asn Leu Tyr Val Thr Asn
                    245                     250                     255
Val Lys Ala Gln His Glu Phe Thr Glu Phe Val Gly Ala Thr Met Phe
                    260                     265                     270
Gly Thr Tyr Asn Asp Ile Ser Leu Val Val Leu Leu Asn Met Leu Ile
         275                     280                     285
Ala Met Met Asn Asn Ser Tyr Gln Leu Ile Ala Asp His Ala Asp Ile
     290                     295                     300
Glu Trp Lys Phe Ala Arg Thr Lys Leu Trp Met Ser Tyr Phe Glu Glu
305                     310                     315                     320
Gly Gly Thr Leu Pro Thr Pro Phe Asn Val Ile Pro Ser Pro Lys Ser
                    325                     330                     335
Leu Trp Tyr Leu Ile Lys Trp Ile Trp Thr His Leu Cys Lys Lys Lys
                    340                     345                     350
Met Arg Arg Lys Pro Glu Ser Phe Gly Thr Ile Gly Arg Arg Ala Ala
         355                     360                     365
Asp Asn Leu Arg Arg His His Gln Tyr Gln Glu Val Met Arg Asn Leu
     370                     375                     380
Val Lys Arg Tyr Val Ala Ala Met Ile Arg Asp Ala Lys Thr Glu Glu
385                     390                     395                     400
Gly Leu Thr Glu Glu Asn Phe Lys Glu Leu Lys Gln Asp Ile Ser Ser
                    405                     410                     415
Phe Arg Phe Glu Val Leu Gly Leu Leu Arg Gly Ser Lys Leu Ser Thr
                    420                     425                     430
Ile Gln Ser Ala Asn Ala Ser Lys Glu Ser Ser Asn Ser Ala Asp Ser
         435                     440                     445
Asp Glu Lys Ser Asp Ser Glu Gly Asn Ser Lys Asp Lys Lys Lys Asn
     450                     455                     460
Phe Ser Leu Phe Asp Leu Thr Thr Leu Ile His Pro Arg Ser Ala Ala
465                     470                     475                     480
Ile Ala Ser Glu Arg His Asn Ile Ser Asn Gly Ser Ala Leu Val Val
                    485                     490                     495
Gln Glu Pro Pro Arg Glu Lys Gln Arg Lys Val Asn Phe Val Thr Asp
              500                     505                     510
Ile Lys Asn Phe Gly Leu Phe His Arg Arg Ser Lys Gln Asn Ala Ala
         515                     520                     525
Glu Gln Asn Ala Asn Gln Ile Phe Ser Val Ser Glu Glu Val Ala Arg
     530                     535                     540
Gln Gln Ala Ala Gly Pro Leu Glu Arg Asn Ile Gln Leu Glu Ser Arg
545                     550                     555                     560
Gly Leu Ala Ser Arg Gly Asp Leu Ser Ile Pro Gly Leu Ser Glu Gln
                    565                     570                     575
```

1067

```
Cys Val Leu Val Asp His Arg Glu Arg Asn Thr Asp Thr Leu Gly Leu
            580                 585             590
Gln Val Gly Lys Arg Val Cys Pro Phe Lys Ser Glu Lys Val Val Val
            595                 600             605
Glu Asp Thr Val Pro Ile Ile Pro Lys Glu Lys His Ala Lys Glu Glu
    610                 615             620
Asp Ser Ser Ile Asp Tyr Asp Leu Asn Leu Pro Asp Thr Val Thr His
625                 630             635                 640
Glu Asp Tyr Val Thr Thr Arg Leu  *
                645         648
```

```
<210> 1967
<211> 80
<212> PRT
<213> Homo sapiens
```

```
<400> 1967
Met Thr Gly Thr His Gln Tyr Ala Trp Val Ile Phe Val Phe Leu Ser
1               5                   10                  15
Thr Tyr Arg Ile Ser Pro Cys Trp Pro Gly Trp Phe Gln Thr Pro Gly
            20                  25                  30
Leu Arg Trp Ser Ala Cys Leu Gly Leu Pro Gly Cys Trp Asp Cys Arg
            35                  40                  45
Arg Glu Pro Leu Gly Pro Ala Cys Ile Phe Tyr Gln Pro Gln Ile Gln
    50                  55                  60
Gln Gln Ala Glu Asp Ser Ala His Lys Thr Gly Leu Val Ser Trp  *
65                  70                  75              79
```

```
<210> 1968
<211> 49
<212> PRT
<213> Homo sapiens
```

```
<400> 1968
Met Thr Tyr Ile Leu Val Tyr Lys Leu Gly Ser Ile Leu Leu Ser Phe
1               5                   10                  15
Phe Leu Ile Cys Phe Glu Glu Phe Ser Ser Glu Asn Ser Gly Pro Gly
            20                  25                  30
Ile Phe Phe Val Glu Arg Val Leu Ile Leu Asn Leu Ile Ser Leu Ile
            35                  40                  45          48
    *
```

```
<210> 1969
<211> 150
<212> PRT
<213> Homo sapiens
```

```
<400> 1969
Met His Val His Phe Trp Leu Val Thr Ala Ser Phe Ser Ser Ser Val
```

```
       1             5                     10                    15
    Ala Trp Thr Thr Ala Glu Ile Thr Gly Gly Val Ser Gly Val Ala Ala
                 20                     25                    30
    Gly Val Gly Ser Trp Glu Gly Gly Ser Glu Arg Gly Asp Arg Phe Gly
                 35                     40                    45
    Asp Phe Phe Thr Leu Asn Val Ser Val Phe Arg Gly Val Phe Phe Phe
         50                     55                    60
    Leu Ala Gly Leu Phe Ser Pro Ser Pro Ser Thr Pro Leu Ala Ser Ile
    65                     70                    75                    80
    Ala Leu Ala Gly Ile Ser Lys Glu Ala Gly Asp Leu Glu Gly Glu Leu
                 85                     90                    95
    Gly Val Leu Glu Asp Val Leu Lys Gly Ser Thr Asp Ser Ser Gln Val
                 100                    105                   110
    Ser Gly Ser Lys Leu Tyr Asp Cys Trp Gly Ser Leu Gly Asp Ser Cys
                 115                    120                   125
    Ile Phe Glu Val Glu Glu Lys Gly Leu Lys Leu Gly Ser Ser His Leu
         130                    135                   140
    Ser Ile Ser Lys Val  *
    145            149
```

```
        <210> 1970
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1970
    Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
    1             5                     10                    15
    Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
                 20                     25                    30
    Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu  *
                 35                     40                    45    47
```

```
        <210> 1971
        <211> 64
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1971
    Met Leu Ile Phe Thr Val Leu Glu Leu Leu Leu Ala Ala Tyr Ser Ser
    1             5                     10                    15
    Val Phe Trp Trp Lys Gln Leu Tyr Ser Asn Asn Pro Gly Val Ser Met
                 20                     25                    30
    Leu Thr Cys Arg Leu Ile Pro Ala Val Ser Gln Val Gln Ala Thr Ile
                 35                     40                    45
    Ile Gln Pro Gln Lys Val Ala Lys Arg Arg Ile Asn Tyr Cys Ser  *
         50                     55                    60    63
```

```
        <210> 1972
        <211> 211
        <212> PRT
```

```
      <213> Homo sapiens

      <221> misc_feature
      <222> (1)...(211)
      <223> Xaa = any amino acid or nothing


      <400> 1972
Met Thr Arg Met Leu Asn Met Leu Ile Val Phe Arg Phe Leu Arg Ile
  1           5               10              15
Ile Pro Ser Met Lys Pro Met Ala Val Val Ala Ser Thr Val Leu Gly
             20              25              30
Leu Val Gln Asn Met Arg Ala Phe Gly Gly Ile Leu Val Val Val Tyr
         35              40              45
Tyr Val Phe Ala Ile Ile Gly Ile Asn Leu Phe Arg Gly Val Ile Val
     50              55              60
Ala Leu Pro Gly Asn Ser Ser Leu Ala Pro Ala Asn Gly Ser Ala Pro
 65              70              75              80
Cys Gly Ser Phe Glu Gln Leu Glu Tyr Trp Ala Asn Asn Phe Asp Asp
             85              90              95
Phe Xaa Ala Ala Leu Val Thr Leu Trp Asn Leu Met Val Val Asn Asn
         100             105             110
Trp Gln Val Phe Leu Asp Ala Tyr Arg Arg Tyr Ser Gly Pro Trp Ser
         115             120             125
Lys Ile Tyr Phe Val Leu Trp Trp Leu Val Ser Ser Val Ile Trp Val
     130             135             140
Asn Leu Phe Leu Ala Leu Ile Leu Glu Asn Phe Leu His Lys Trp Asp
145             150             155             160
Pro Arg Ser His Leu Gln Pro Leu Ala Gly Thr Pro Glu Ala Thr Tyr
             165             170             175
Gln Met Thr Val Glu Leu Leu Phe Arg Asp Ile Leu Glu Glu Pro Gly
         180             185             190
Glu Asp Glu Leu Thr Glu Arg Leu Ser Gln His Pro His Leu Trp Leu
         195             200             205
Cys Arg *
    210


      <210> 1973
      <211> 53
      <212> PRT
      <213> Homo sapiens


      <400> 1973
Met Ile Gln Tyr Ala Val Phe Val Leu Cys Gly Phe Leu Tyr Leu Cys
  1           5               10              15
Phe Met Leu Phe Phe Phe Ser Ser Val Thr Gln Ala Gly Val Ser Glu
             20              25              30
Pro Arg Ser Ser His Cys Thr Pro Ala Trp Ala Thr Glu Arg Asp Cys
         35              40              45
Val Ser Asn Lys *
     50      52


      <210> 1974
      <211> 50
```

```
        <212> PRT
        <213> Homo sapiens


        <400> 1974
Met Gly Val Thr Thr Ala Thr Leu Ile Ala Pro Ala Leu Arg Thr Leu
 1               5                   10                  15
Arg Thr Ser Ala Val Cys Ser Thr Thr Ala Glu Thr Ser Phe Ser Ala
            20                  25                  30
Cys Thr Phe Val Ser Thr Ser Cys Ser Lys Lys Gly Thr Pro Arg Phe
            35                  40                  45
Ser  *
49



        <210> 1975
        <211> 87
        <212> PRT
        <213> Homo sapiens


        <400> 1975
Met Cys Ser Ser Pro Ala Val Leu Leu Cys Ala Leu Val Val Gly Cys
 1               5                   10                  15
Pro Val Gly Phe Pro His Glu Ala Asp Pro Gly Ser Met Gln Arg Ala
            20                  25                  30
Ser Ser Leu Gly Leu His Gln Ala Ser Val Val Ser Ala Gly Trp Leu
            35                  40                  45
Gly Gln Ala Arg His Gly Ala His Leu Gly Cys Ser Leu Leu Pro Ser
        50                  55                  60
Gly Val His Gly Leu Trp Arg Pro Ser Val Gln Pro Arg Arg Asp Pro
65              70                  75                      80
Val Thr Glu Leu Gln Cys  *
                85  86



        <210> 1976
        <211> 107
        <212> PRT
        <213> Homo sapiens


        <400> 1976
Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
 1               5                   10                  15
Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
            20                  25                  30
Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
            35                  40                  45
Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
        50                  55                  60
His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
65              70                  75                      80
Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Gln Gln Gly Asp Arg
                85                  90                      95
Leu Arg Val Pro Leu Val Ser Trp Arg Arg  *
                100                 105 106
```

1071

```
<210> 1977
<211> 134
<212> PRT
<213> Homo sapiens


<400> 1977
Met Val Thr Val Ala Met Ala Cys Ser Gly Ala Leu Thr Ala Leu Cys
1                 .5                    10                    15
Cys Leu Phe Val Ala Met Gly Val Leu Arg Val Pro Trp His Cys Pro
            20                    25                    30
Leu Leu Leu Val Thr Glu Gly Leu Leu Asp Met Leu Ile Ala Gly Gly
            35                    40                    45
Tyr Ile Pro Ala Leu Tyr Phe Tyr Phe His Tyr Leu Ser Ala Ala Tyr
        50                    55                    60
Gly Ser Pro Val Cys Lys Glu Arg Gln Ala Leu Tyr Gln Ser Lys Gly
65                    70                    75                    80
Tyr Ser Gly Phe Gly Cys Ser Phe His Gly Ala Asp Ile Gly Ala Gly
                85                    90                    95
Ile Phe Ala Ala Leu Gly Ile Val Val Phe Ala Leu Gly Ala Val Leu
            100                   105                   110
Ala Ile Lys Gly Tyr Arg Lys Val Arg Lys Leu Lys Glu Lys Pro Ala
        115                   120                   125
Glu Met Phe Glu Phe   *
    130               133


<210> 1978
<211> 61
<212> PRT
<213> Homo sapiens


<400> 1978
Met Thr Leu Arg Met Leu Val Pro Arg Leu Leu Leu Thr Arg Gln Leu
1                 5                     10                    15
Val Trp Phe Phe Ser Ala Ala Thr Glu Arg Asp Pro Glu Met Met Asn
            20                    25                    30
Gly Ile Pro Arg Lys Leu Met Ser Phe Pro Pro Ser Ser Val Thr Ser
        35                    40                    45
Arg Arg Ser Arg Arg Gly His His Leu Gln Ser Leu   *
    50                    55                    60


<210> 1979
<211> 66
<212> PRT
<213> Homo sapiens


<400> 1979
Met Leu Thr Ala Leu Pro Lys Ser Phe Val Phe Lys Val Val Gly Glu
1                 · 5                   10                    15
Trp Trp Trp Leu Phe Ile Cys Leu Val Leu Ala Phe Ala Asp Gly Lys
```

```
                          20                      25                     30
Arg His Lys Tyr Ser Tyr Asp Ala Asn Val Phe Leu Gln Val Asn Tyr
              35                      40                     45
Ile Thr Trp Pro Asp Ser Phe Ser Pro Val Pro Ser Leu Pro Pro Ile
         50                      55            ·            60
Leu  *
  65
```

```
        <210> 1980
        <211> 51
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1980
Met Asp Thr Pro Arg Ser Thr Val Phe Ser Leu Trp Phe Gly Ile His
  1                 5                     10                     15
Lys Ala Ala Gly Ile Phe Gln Val Leu Val Gln Leu Leu Leu Leu Leu
              20                      25                     30
Thr Pro Tyr Pro Arg Tyr Pro Ser Pro Ser Pro Leu Pro Pro Tyr Ser
         35                      40                     45
Tyr Pro  *
     50
```

```
        <210> 1981
        <211> 79
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1981
Met Met Trp Ala Ala Gly Ala Val Ala Ala Met Ser Ser Ile Thr Phe
  1                 5                     10                     15
Pro Ala Val Ser Ala Leu Val Ser Arg Thr Ala Asp Ala Asp Gln Gln
              20                      25                     30
Gly Glu Leu Ile Gly Thr Ser Asp Asn Tyr Leu Lys Val Gln Asn Val
         35                      40                     45
Leu Ile Leu Cys Ser Val Ser Tyr Val Leu Lys His Lys Tyr Ile Phe
     50                      55                     60
Arg Gly Glu Thr Phe Lys Ile Ala Phe Asp Ile Asn Arg Lys Ser
  65                      70                     75            79
```

```
        <210> 1982
        <211> 156
        <212> PRT
        <213> Homo sapiens ·
```

```
        <400> 1982
Met His Asn Asn Tyr Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe
  1                 5                     10                     15
Phe Val Leu Met Leu Leu Val Leu Asp Leu Leu Tyr Tyr Ser Ala Met
              20                      25                     30
```

1073

```
Asn Tyr Asp Ile Cys Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly
        35                  40                  45
Arg Trp Met Lys Gln Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala
    50                  55                  60
Pro Arg Pro Gly Gln Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro
65                  70                  75                  80
Leu Pro Gln Ala Pro Gln Ala Val His Thr Leu Arg Gly Asp Ala His
                85                  90                  95
Ser Pro Pro Leu Met Thr Phe Gln Ser Ser Ser Ala Trp Glu Gly Ala
                100                 105                 110
Ser Gln Gln Gln Glu Ile Pro Glu Asn Glu Glu Thr Glu Lys Gly Asp
        115                 120                 125
Asp Gln Ile Ser Ser Phe Leu Gly Val Thr Ser Asn Thr Lys Glu Ala
    130                 135                 140
Ser Val Ile Gly Ile Gln Lys Thr Val Asp Val Leu
145                 150                 155 156
```

```
<210> 1983
<211> 63
<212> PRT
<213> Homo sapiens
```

```
<400> 1983
Met Arg Leu Ile Arg Ile Trp Phe Ser Gly Lys Phe Phe Pro Ala Gly
1               5                   10                  15
Leu His Ser Gln Ser Leu Pro Ser Ile Ser Ala Ala Ile Gly Leu Leu
        20                  25                  30
Met Leu Phe Thr Asn Leu Phe Thr Cys Ser Lys Cys Phe Val Ile Ser
        35                  40                  45
Val Ala Lys Thr Met Ser Ile Ile Ala Trp Arg Ser Val Arg  *
    50                  55                  60  62
```

```
<210> 1984
<211> 232
<212> PRT
<213> Homo sapiens
```

```
<400> 1984
Met Phe His Arg Cys Gly Ile Met Ala Leu Val Ala Ala Tyr Leu Asn
1               5                   10                  15
Phe Val Ser Gln Met Ile Ala Val Pro Ala Phe Cys Gln His Val Ser
        20                  25                  30
Lys Val Ile Glu Ile Arg Thr Met Glu Ala Pro Tyr Phe Leu Pro Glu
        35                  40                  45
His Ile Phe Arg Asp Lys Cys Met Leu Pro Lys Ser Leu Glu Lys His
    50                  55                  60
Glu Lys Asp Leu Tyr Phe Leu Thr Asn Lys Ile Ala Glu Ser Leu Gly
65                  70                  75                  80
Gly Lys Trp Asp Ile Val Leu Arg Asp Cys Gln Phe Arg Met Leu Pro
                85                  90                  95
Gln Val Thr Asp Glu Asp Arg Leu Ser Arg Arg Lys Ser Ile Val Asp
                100                 105                 110
Thr Val Ser Ile Gln Val Asp Ile Leu Ser Asn Asn Val Pro Ser Asp
```

1074

```
            115                    120                    125
Asp Val Val Ser Asn Thr Glu Glu Ile Thr Phe Glu Ala Leu Lys Lys
    130                    135                    140
Ala Ile Asp Thr Ser Gly Met Glu Glu Gln Glu Lys Glu Lys Arg Arg
145                    150                    155                    160
Leu Val Ile Glu Lys Phe Gln Lys Ala Pro Phe Glu Glu Ile Ala Ala
                    165                    170                    175
Gln Cys Glu Ser Lys Ala Asn Leu Leu His Asp Arg Leu Ala Gln Ile
                180                    185                    190
Leu Glu Leu Thr Ile Arg Pro Pro Pro Ser Pro Ser Gly Thr Leu Thr
                195                    200                    205
Ile Thr Ser Gly His Ala Gln Tyr Gln Ser Val Pro Val Tyr Glu Met
    210                    215                    220
Lys Phe Pro Asp Leu Cys Val Tyr
225                    230     232
```

```
        <210> 1985
        <211> 141
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1985
Met Asn Leu Ser Leu Pro Phe Leu Cys Leu Phe Leu Leu Ser Phe Ser
1                   5                    10                    15
Phe Lys Leu Ala Leu Gln Leu Arg Lys Val Ser Leu Leu Ser Leu Arg
                20                    25                    30
Leu Trp Gly Gln Ser Ile Cys Cys Leu Glu Lys Glu Gly Asn Gln Asp
            35                    40                    45
Ser Ser Gly Thr Gln Met Ser Ser Ser Leu Ala Leu Leu Asn Pro Leu
    50                    55                    60
Leu His Asn Trp Ser Phe Ile Leu Ala Leu Asn Asp Pro Ala Gly His
65                    70                    75                    80
His Gly Phe Leu Phe Leu Leu Val Phe Phe Phe Ser Glu Thr Glu Ser
                85                    90                    95
His Ser Val Thr Gln Ala Gly Val Gln Trp Arg Asp Leu Ser Ser Leu
            100                    105                    110
Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Phe Cys Leu Ser Leu Pro
            115                    120                    125
Ser Ser Trp Asp Tyr Arg Cys Ala Thr Thr Pro Gly   *
    130                    135                    140
```

```
        <210> 1986
        <211> 292
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1986
Met Ile Ser Val Ser Ala Met Ala Ile Ala Phe Leu Thr Leu Gly Tyr
1                   5                    10                    15
Phe Phe Lys Ile Lys Glu Ile Lys Ser Pro Glu Met Ala Glu Asp Trp
                20                    25                    30
Asn Thr Phe Leu Leu Arg Phe Asn Asp Leu Asp Leu Cys Val Ser Glu
            35                    40                    45
```

```
Asn Glu Thr Leu Lys His Leu Thr Asn Asp Thr Thr Thr Pro Glu Ser
    50                  55              60
Thr Met Thr Ser Gly Gln Ala Arg Ala Ser Thr Gln Ser Pro Gln Ala
65                  70              75                  80
Leu Glu Asp Ser Gly Pro Val Asn Ile Ser Val Ser Ile Thr Leu Thr
                85              90                  95
Leu Asp Pro Leu Lys Pro Phe Gly Gly Tyr Ser Arg Asn Val Thr His
            100             105             110
Leu Tyr Ser Thr Ile Leu Gly His Gln Ile Gly Leu Ser Gly Arg Glu
            115             120             125
Ala His Glu Glu Ile Asn Ile Thr Phe Thr Leu Pro Thr Ala Trp Ser
    130             135             140
Ser Asp Asp Cys Ala Leu His Gly His Cys Glu Gln Val Val Phe Thr
145             150             155                 160
Ala Cys Met Thr Leu Thr Ala Ser Pro Gly Val Phe Pro Val Thr Val
            165             170             175
Gln Pro Pro His Cys Val Pro Asp Thr Tyr Ser Asn Ala Thr Leu Trp
            180             185             190
Tyr Lys Ile Phe Thr Thr Ala Arg Asp Ala Asn Thr Lys Tyr Ala Gln
            195             200             205
Asp Tyr Asn Pro Phe Trp Cys Tyr Lys Gly Ala Ile Gly Lys Val Tyr
    210             215             220
His Ala Leu Asn Pro Lys Leu Thr Val Ile Val Pro Asp Asp Asp Arg
225             230             235                 240
Ser Leu Ile Asn Leu His Leu Met His Thr Ser Tyr Phe Leu Phe Val
            245             250             255
Met Val Ile Thr Met Phe Cys Tyr Ala Val Ile Lys Gly Arg Pro Ser
            260             265             270
Lys Leu Arg Gln Ser Asn Pro Glu Phe Cys Pro Glu Lys Val Ala Leu
    275             280             285
Ala Glu Ala  *
290 291
```

```
<210> 1987
<211> 186
<212> PRT
<213> Homo sapiens


<400> 1987
Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
1               5               10              15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
            20              25              30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
        35              40              45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
    50              55              60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
65              70              75                  80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
            85              90                  95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
            100             105             110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
    115             120             125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
```

```
        130                    135                    140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145                    150                    155                    160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
                165                    170                    175
Arg Ala Glu Ser Lys Leu Glu Ser Cys  *
                180                    185
```

```
        <210> 1988
        <211> 47
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1988
Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
1                   5                   10                      15
Val Val Cys Phe Ser Phe Ser Tyr Gly Val Glu Pro Pro Lys Ser Trp
                20                      25                      30
Ser Gln Gly Lys Lys Gly Val Val Thr Gly Asp Ser Leu Leu  *
            35                      40                      45   46
```

```
        <210> 1989
        <211> 58
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1989
Met Thr Leu Pro Cys Ala Ile Gln Met Phe Ile Ala Ala Val Gln Val
1                   5                   10                      15
Leu Ser Val Thr Tyr Leu Asp Leu Gln Pro His Leu Asn Glu Ser Leu
                20                      25                      30
Leu Thr Val Ser Leu Ile Phe Arg Phe Ile Phe Asn Leu Leu Phe Tyr
            35                      40                      45
Leu Gly Leu Thr Phe Ser Val Thr Lys  *
        50                      55    57
```

```
        <210> 1990
        <211> 80
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1990
Met Ile Ser Phe Val Leu Val Lys Gly Leu Phe Leu Lys Cys Thr Phe
1                   5                   10                      15
His Phe Pro Leu Phe Asn Arg His Ile Met Ser Cys Ser Phe Leu Arg
                20                      25                      30
Ser Asp Phe Met His Gly Asp Ser Met Cys Phe Ser Ser Ser Tyr Met
            35                      40                      45
Leu Leu Asn Glu Ser Leu Tyr Ile Ser Phe His Thr Met Val Ile Lys
        50                      55                      60
```

```
Thr His Trp Ala Val Cys Gly Cys Gly Phe Ile Ser Glu Lys Leu  *
65              70              ·75          79
```

```
        <210> 1991
        <211> 48
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1991
Met Val Arg Trp Lys Arg Glu Ile His Glu Leu Leu Trp Pro Leu Trp
1               5               ·10             15
Phe Cys Ser Trp Pro Arg Val Phe Glu Lys Gln Arg Ser Met Thr Asp
            20              25              30
Phe Thr Cys Ser Ala Phe Ser Ala Phe Cys Leu Phe Cys Cys Pro  *
        35              40              45      47
```

```
        <210> 1992
        <211> 51
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1992
Met Leu Phe Ser Leu Gln Thr Ala Ile Val Tyr Cys Thr Ile Thr Val
1               5               10              15
Leu Cys His Arg Thr Leu Ile Phe Ser Ser Met His Lys Cys Ile Met
            20              25              30
Leu Phe Pro Ile Ile His Ile Cys Ser Tyr Val Phe Phe Val Ile Tyr
        35              40              45
Ser Phe  *
    50
```

```
        <210> 1993
        <211> 79
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1993
Met Trp Cys Ala Glu Met Leu His Ile Leu Phe Met Gly Leu Arg Val
1               5               10              15
Asn Leu Asn His Glu Thr Phe Leu Ile Ile Cys Cys Glu Ile Tyr Gln
            20              25              30
Ala Trp Met Ile Ser Val Phe Leu Val Val Cys Cys Phe Phe Lys Glu
        35              40              45
Val Ile Gln Val Pro Leu Leu Ser Cys Gln His Thr Lys Leu Leu Lys
    50              55              60   ·
Lys Leu Thr Ile Ser Phe Arg Ser Asn Ser Gln Pro Val Glu  *
65              70              75          78
```

```
<210> 1994
<211> 52
<212> PRT
<213> Homo sapiens


<400> 1994
Met Thr Ser Leu Gln Lys Arg Leu Leu Ser His Cys Met Gln Cys Thr
1               5                   10                  15
Met Leu Leu Gly Ile Cys Gly Gln Cys Lys Asp Asp Asp Ile Leu Ala
            20                  25                  30
Ser Trp Val Ile Gln Glu Phe Thr Ala Met Gln Ser Arg Ser Arg Asn
            35                  40                  45
Leu Gln Ser Arg
    50      52




<210> 1995
<211> 164
<212> PRT
<213> Homo sapiens


<400> 1995
Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
1               5                   10                  15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
            20                  25                  30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
            35                  40                  45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
    50                  55                  60
Lys Glu Arg Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
65                  70                  75                  80
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
                85                  90·                  95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
            100                 105                 110
Thr Ile Thr Tyr Ser Tyr Ala Gly Gly Gln Ser Thr His Gly Pro Gly
            115                 120                 125
Leu Pro Ala Leu Leu Gln Ala Ser Pro Ser Pro Trp Cys Leu Cys Arg
    130                 135                 140
Leu Ala Asp Val Leu Ala Arg Arg Gly Ser Met Pro Glu Pro Pro Leu
145                 150                 155                 160
Cys Ile Cys *
    163




<210> 1996
<211> 77
<212> PRT
<213> Homo sapiens


<400> 1996
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
1               5                   10                  15
```

```
His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
            20                      25                  30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
            35                      40                  45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
        50                  55                  60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu  *
65                  70                      75  76
```

```
        <210> 1997
        <211> 233
        <212> PRT
        <213> Homo sapiens


        <400> 1997
Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser
 1               5                  10                  15
Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr Pro Val Val Ser Ile Ala
            20                      25                  30
Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr
            35                      40                  45
Cys Cys Ala Pro Gln Pro Pro Pro Ile Thr Tyr Ser Leu Cys Gly
        50                  55                  60
Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro
65                  70                      75                  80
Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu
                    85                  90                  95
Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser
                100                 105                 110
Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg
            115                 120                 125
Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr
        130                 135                 140
His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu
145                 150                 155                 160
Thr Met Pro Gln Glu Ala Cys Gln Leu Ser Pro Ser Cys Arg Ala Arg
                165                 170                 175
His Arg Thr Trp Phe Trp Cys Gln Ala Cys Lys Gln Arg Gln Cys Ser
                180                 185                 190
Ser Thr Ala Pro Ser Gln Trp Leu Pro Gln Val Val Thr Gln Lys Met
            195                 200                 205
Glu Asp Trp Gln Gly Pro Pro Gly Glu Pro His Pro Cys Leu Ala Ala
        210                 215                 220
Leu Gln Glu His Pro Pro Ser Glu  *
225                 230     232
```

```
        <210> 1998
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 1998
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly
```

```
     1                    5                    10                   15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
              20                    25                   30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
          35                    40                   45
Val Gln His His Ala Trp Leu Ile Phe  *
    50                    55      57
```

```
        <210> 1999
        <211> 66
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 1999
Met Trp Leu Leu Val Thr Leu Ser Pro Arg Leu Leu Leu Ser Pro Ser
  1                 5                    10                   15
His Phe Thr Leu Glu Gly Pro Gln Ile Asp Gln Ala His Ser Glu Leu
              20                    25                   30
Gln Val Leu Pro Leu Val Arg Pro Ser Ala Val Pro Leu Leu Gln Arg
          35                    40                   45
Ala Ser Trp Leu Arg Ser Arg Cys Leu His Leu Pro Lys Thr Val Leu
    50                    55                   60
Val  *
65
```

```
        <210> 2000
        <211> 106
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 2000
Met Gly Arg Cys Leu Ser Leu Gly Ile Leu Arg Gln Gly Leu Cys Cys
  1                 5                    10                   15
Pro Cys Trp Ser Val Val Ala Glu Ser Gly Leu Thr Ala Ser Leu Gly
              20                    25                   30
Gly Ser Gly His Pro Ala Thr Ser Cys Ser Lys Glu Ala Gly Thr Thr
          35                    40                   45
Gly Glu Cys Met His His Thr Gln Leu Gly Ile Gln Thr Leu Arg Thr
    50                    55                   60
Tyr Tyr Met Pro Asp Ser Val Glu Leu Ser Glu Thr Met Ser Gly Cys
65                    70                   75                   80
Asn Trp Leu Pro Thr Gln Gln Thr Gln Ser Trp Ala Asn Ile Leu Arg
              85                    90                   95
Val Tyr Leu Thr Leu Lys Tyr Arg Phe Ser
          100                    105 106
```

```
        <210> 2001
        <211> 88
        <212> PRT
        <213> Homo sapiens
```

```
    <400> 2001
Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1               5                   10                  15
Ala Leu Pro Asn Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Val Arg
            20                  25                  30
Gly Arg Gly Arg Leu Gly His Val Gly Ser Trp Gly Ser Ser Arg Pro
        35                  40                  45
Gly Trp Arg Gly Leu Lys Glu Cys Cys Cys Gln Glu Leu Arg Gly Pro
    50                  55                  60
Glu Arg Gly Val Tyr Ala Trp Arg Gly Gln Asp Leu Lys Gly Arg Arg
 65              70                  75                  80
Tyr Leu Ala Glu Gly His Leu  *
                85      87


    <210> 2002
    <211> 85
    <212> PRT
    <213> Homo sapiens


    <400> 2002
Met Arg Lys Leu Ile Ala Gly Leu Ile Phe Leu Lys Ile Trp Thr Cys
 1               5                   10                  15
Thr Val Arg Thr Ser Thr Asp Leu Pro Gln Thr Glu Asp Cys Ser Gln
            20                  25                  30
Cys Ile His Gln Val Thr Glu Ile Gly Gln Lys Val Ala Thr Val Leu
        35                  40                  45
Leu Phe Tyr Gly Tyr Tyr Lys Tyr Thr Gly Thr Leu Lys Arg Thr Cys
    50                  55                  60
Leu Tyr Asn Val Ile Leu Tyr Lys Val Tyr Ser Pro Gly Asn Asp Gln
 65              70                  75                  80
Pro Asp Val Leu  *
            84


    <210> 2003
    <211> 46
    <212> PRT
    <213> Homo sapiens


    <400> 2003
Met Ala Phe Ala Ser Val Leu Leu Ala Arg Ala Ser Pro Ala Val Val
 1               5                   10                  15
Arg Ala Cys Leu Ser Arg Cys Ala Tyr Gly Val Gly Ser Asp Cys Pro
            20                  25                  30
His Leu Val Thr Leu Ala Ala Leu Ile Leu Phe Trp Val  *
        35                  40                  45


    <210> 2004
    <211> 51
    <212> PRT
    <213> Homo sapiens
```

```
        <400> 2004
Met Trp Leu Phe Ile Ala Ser Lys Cys Ile Phe Leu Leu Ile Val Pro
 1               5                  10                 15
Asn Phe Ile Phe Val Phe Trp Arg Lys Val Phe Ser His Asp Arg Leu
            20                  25                 30
Asn Ile Ala Tyr Ser Phe Glu Leu Ser Ser Lys Tyr Ile Phe Ile Leu
        35                  40                 45
Phe Ile  *
    50
```

```
        <210> 2005
        <211> 66
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 2005
Met Val Glu Val Val Ser Leu Leu His Leu Tyr Ala Val Ala Cys Ala
 1               5                  10                 15
Arg Lys Gly Pro Phe Pro Asn Thr Lys Asp Leu Ser Gly Trp Thr Pro
            20                  25                 30
Ser Ser Gly Arg Glu Glu Leu Trp Lys Gly Lys Arg Ala Ala Ala Ala
        35                  40                 45
Thr Arg Asn Pro Leu Val Leu Thr Gly Leu Gly Ser Pro Ser Ala Arg
    50                  55                 60
Leu  *
 65
```

```
        <210> 2006
        <211> 46
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 2006
Met Leu Val Pro Thr Phe Phe Leu Leu Ser Leu Leu Asp Gln Ser Cys
 1               5                  10                 15
Leu Ser Ile Cys Val Ser Gln Asp Tyr Phe Ser Ser Ile Val Val Gln
            20                  25                 30
Ile Arg Gln Ile Gly Ser Leu Cys Leu Asn Lys Ser Leu  *
        35                  40                 45
```

```
        <210> 2007
        <211> 87
        <212> PRT
        <213> Homo sapiens
```

```
        <400> 2007
Met Pro Thr Leu Ala Lys Trp Ile Leu Ser Leu Ser Met Thr Ser Thr
 1               5                  10                 15
```

```
Thr Trp Ser Pro Cys Ser Ser Met Ile Pro Leu Met Ala Ser Ser Thr
            20                  25                  30
Ala Pro Ser Arg Leu Arg Thr Gly Ser Leu Pro Ser Met Thr Ile Pro
            35                  40                  45
Ser Pro Ser Arg Arg Ser Glu Ile Pro Pro Lys Ser Ser Gly Val Met
        50                  55                  60
Pro Ala Leu Ile Ile Leu Trp Arg Pro Pro Ala Ser Leu Pro Ala Trp
65                  70                  75                  80
Arg Arg Leu Gly Ile Thr  *
                85  86
```

```
        <210> 2008
        <211> 58
        <212> PRT
        <213> Homo sapiens


        <400> 2008
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly
 1               5                  10                  15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
            20                  25                  30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
            35                  40                  45
Val Gln His His Ala Trp Leu Ile Phe  *
        50                  55      57


        <210> 2009
        <211> 46
        <212> PRT
        <213> Homo sapiens


        <400> 2009
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
 1               5                  10                  15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
            20                  25                  30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met
        35                  40                  45  46


        <210> 2010
        <211> 235
        <212> PRT
        <213> Homo sapiens


        <400> 2010
Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
 1               5                  10                  15
Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
            20                  25                  30
Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr
```

1084

```
            35                  40                  45
Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr
        50                  55                  60
Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu
65                  70                  75                  80
Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn
                85                  90                  95
Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
            100                 105                 110
Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys
            115                 120                 125
Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr
    130                 135                 140
Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe
145                 150                 155                 160
Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met
                165                 170                 175
Cys Gln Tyr Asp Tyr Val Glu Gly Cys Asp Gly Asp Asn Arg Asp Gly
            180                 185                 190
His Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Ala Ala Pro Ile His
            195                 200                 205
Asn Ile Arg Ile Leu Thr Ser Arg Pro Phe Pro Leu Pro Gly Leu Ser
    210                 215                 220
Lys Ile Leu Thr Gly Phe His Ala Pro Phe  *
225                 230                 234
```

```
        <210> 2011
        <211> 61
        <212> PRT
        <213> Homo sapiens


        <400> 2011
Met Val Phe Ala Trp Gly Leu Ala Val Asn Lys Thr Ser Leu Val Pro
1                   5                   10                  15
Ile Phe Met Asp Leu Ser Leu Ala Gly Lys Ile Tyr Ile Lys Gln Arg
                20                  25                  30
Met Arg Met Glu Glu Asn Leu Leu Gly Asp Asn Glu Val Lys Glu Glu
            35                  40                  45
Lys Asp Gln Ala Val Lys Trp Gln Thr Leu Arg Trp  *
    50                  55                  60


        <210> 2012
        <211> 107
        <212> PRT
        <213> Homo sapiens


        <400> 2012
Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Phe Leu Thr
1                   5                   10                  15
Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly
                20                  25                  30
Arg Gly Trp Leu Gln Ser Ser Asp Arg Val Gln Thr Ser Ser Leu Trp
            35                  40                  45
```

```
Arg Arg Cys Phe Leu Pro Gln Gly Arg Arg Arg Arg Gln Arg Val Leu
    50                  55              60
Arg Gly Arg Leu Pro Gln Pro His Gly Val Arg Val Gly Ser Ser Ser
65                  70              75                  80
Ala Ala Met Leu Phe Trp Gly Val Ser Ile Leu Glu Ile Cys Phe Ile
                85              90                  95
Leu Ser Phe Phe Val Leu Cys Val Pro Gln Ile
            100             105 107
```

```
<210> 2013
<211> 67
<212> PRT
<213> Homo sapiens
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```
<400> 2013
Met Gly Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp
1               5               10                  15
Gly Pro Thr Leu Pro Ile Leu Arg Gln Arg Val Leu Gly Arg Lys Ile
            20              25              30
Pro Asp Ser Val Phe His Val Arg Arg Leu Arg Ala Pro Tyr Pro Lys
            35              40              45
Asp Val Gly Pro Arg Pro Ile Gln Thr Ala Asn His Ser Pro Asn Gln
    50              55                  60
Gly Ala  *
65  66
```

```
<210> 2014
<211> 59
<212> PRT
<213> Homo sapiens
```

```
<400> 2014
Met Phe Leu Arg Phe Pro Leu Arg Phe Gly Ile Leu Ala Asp Lys Leu
1               5               10                  15
Ile Leu Tyr Lys Ala Ser His Phe Thr Met Leu Ser Val Pro Gly Leu
            20              25              30
Tyr Leu Ser Thr Leu Leu Glu Gly Ile Phe Ile Leu Lys Lys Leu Ser
            35              40              45
Phe Met Arg Arg Met Gly Val His Ala Thr  *
    50              55              58
```

```
<210> 2015
<211> 55
<212> PRT
<213> Homo sapiens
```

```
<400> 2015
Met Val Arg Leu Gln Val Leu Val Leu Val Phe Arg Val Val Gly Ser
1               5               10                  15
Gln Gln Met Leu Arg Gln Gly Ala Ala Gly Ala Arg Ser His Arg Val
```

```
                    20                    25                       30
Leu Ala Ser Leu His Phe Gln His Gly Phe Gly Thr Phe His Thr Pro
         35                    40                    45
Ala Arg Ala Gly Gly Ser Glu
     50                    55
```

```
     <210> 2016
     <211> 64
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 2016
Met Ser Leu Arg Phe Cys Phe Cys Leu Pro Val Cys Pro Ser Leu Pro
 1               5                    10                       15
Ile Ser Val Phe His Val Phe Leu Ser Val Ser Asp His Pro Val Ser
             20                    25                    30
Leu Cys Leu Thr Val Ser Gly His Glu Met Ser Val Ile Val Ala Arg
         35                    40                    45
Phe Thr Leu Ser Leu Tyr Leu Phe Pro Leu Arg Ser Gly Ile Ser   *
     50                    55                    60          63
```

```
     <210> 2017
     <211> 58
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 2017
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
 1               5                    10                       15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
             20                    25                    30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
         35                    40                    45
Ser Ser Arg Pro Ala Trp Pro Ile Arg   *
     50                    55          57
```

```
     <210> 2018
     <211> 66
     <212> PRT
     <213> Homo sapiens
```

```
     <400> 2018
Met Leu His Ile Ser Ser Ala Phe His Cys Tyr Ala Phe Leu Pro Leu
 1               5                    10                       15
Phe Ala Leu Thr His Asn Phe Ile Phe Leu Phe Tyr Leu Leu Ser Leu
             20                    25                    30
Ser Pro Lys Leu Glu Cys Lys Phe Gln Glu Gly Arg Asp Phe Tyr Leu
         35                    40                    45
Phe Phe Phe Val Phe Pro Ile Phe Trp His Val Trp His Arg Lys Gly
     50                    55                    60
```

Ile   *
 65

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rule 13*ter*.1(c) and 39)

Applicant's or agent's file reference 21272-018	IMPORTANT DECLARATION	Date of mailing (day/month/year) 2 7 JUN 2001
International application No. PCT/US01/02687	International filing date *(day/month/year)* 25 January 2001 (25.01.2001)	(Earliest) Priority date *(day/month/year)* 25 January 2000 (25.01.2000)
International Patent Classification (IPC) or both national classification and IPC IPC(7): C12P 21/06 and US CL.: 435/69.1		
Applicant HYSEQ, INC.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that no **international search report will be established** on the international application for the reasons indicated below.

1. ☐   The subject matter of the international application relates to:
     a. ☐   scientific theories.
     b. ☐   mathematical theories
     c. ☐   plant varieties.
     d. ☐   animal varieties.
     e. ☐   essential biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
     f. ☐   schemes, rules or methods of doing business.
     g. ☐   schemes, rules or methods of performing purely mental acts.
     h. ☐   schemes, rules or methods of playing games.
     i. ☐   methods for treatment of the human body by surgery or therapy.
     j. ☐   methods for treatment of the animal body by surgery or therapy.
     k. ☐   diagnostic methods practised on the human or animal body.
     l. ☐   mere presentations of information.
     m. ☐   computer programs for which this International Searching Authority is not equipped to search prior art.

2. ☒   The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:
     ☐ the description   ☒ the claims   ☐ the drawings

3. ☒   The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:
     ☐ the written form has not been furnished or does not comply with the standard.
     ☒ the computer readable form has not been furnished or does not comply with the standard.

4. Further comments:

Name and mailing address of the ISA/US
    Commissioner of Patents and Trademarks
    Box PCT
    Washington, D.C. 20231
	Authorized officer
	
	Young J. Kim